

FIG. 1

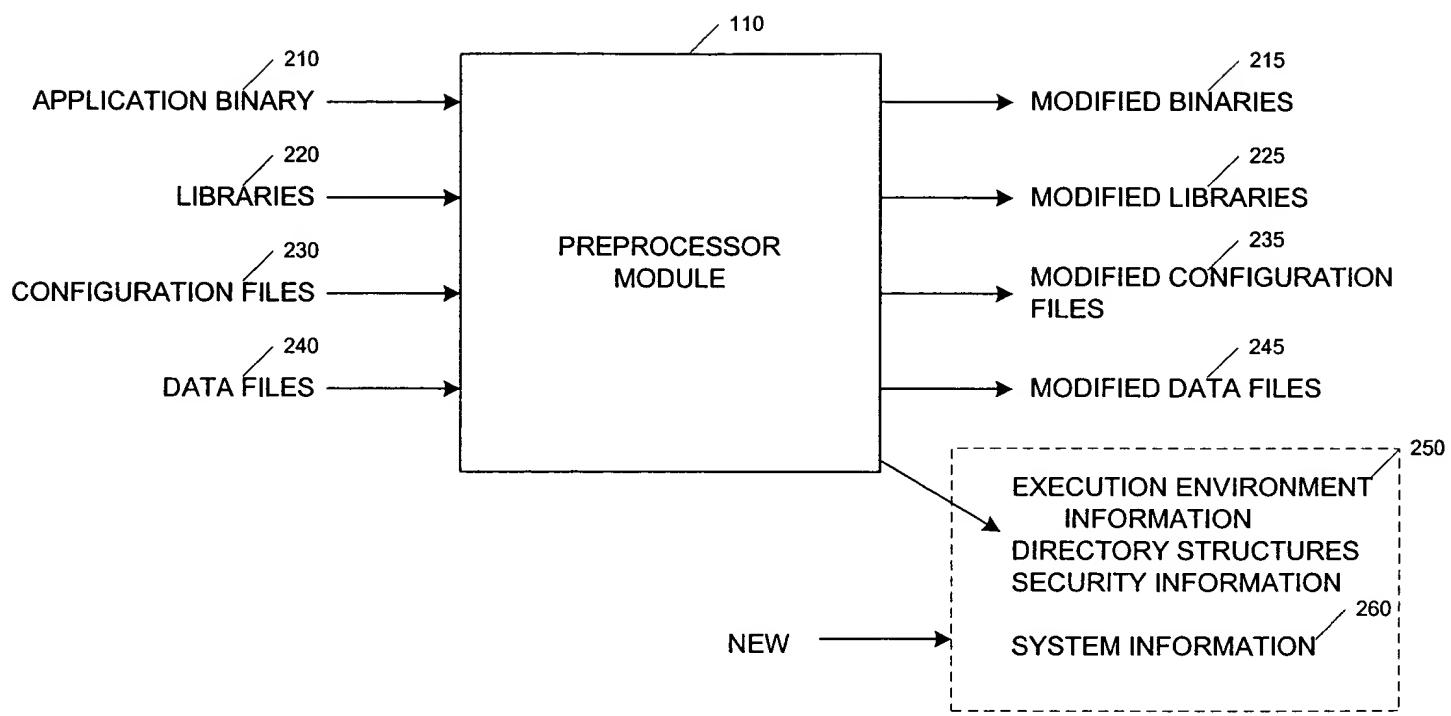


FIG. 2

NORMAL EXECUTION

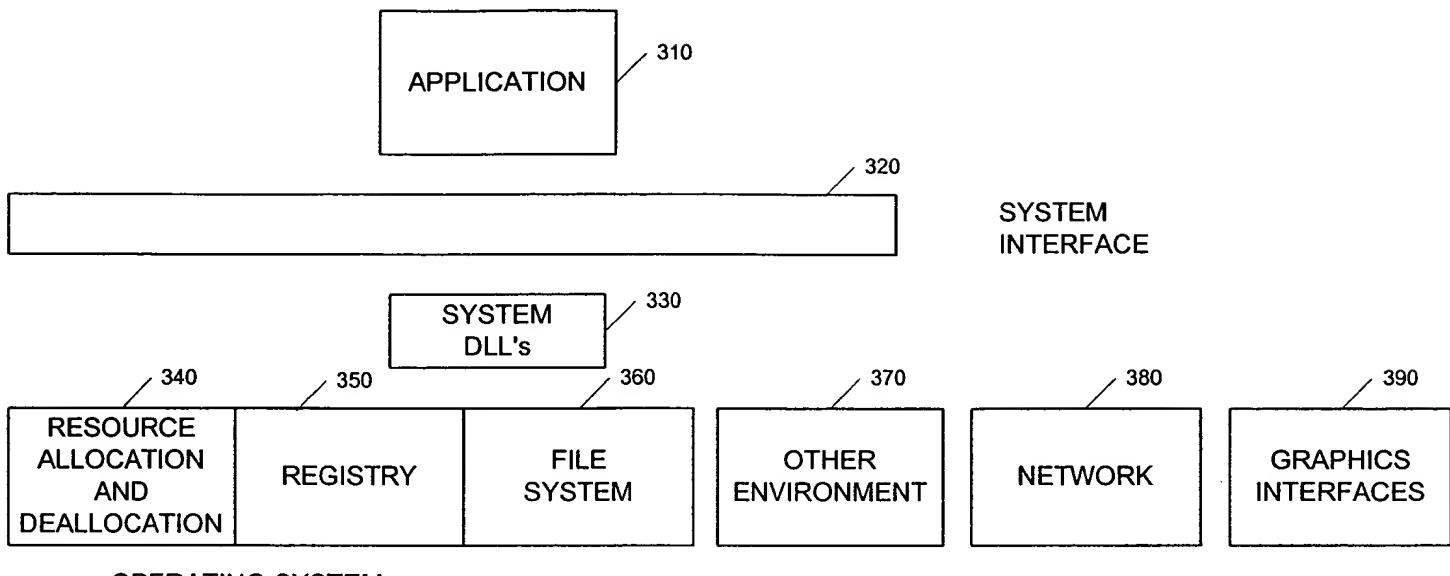


FIG. 3

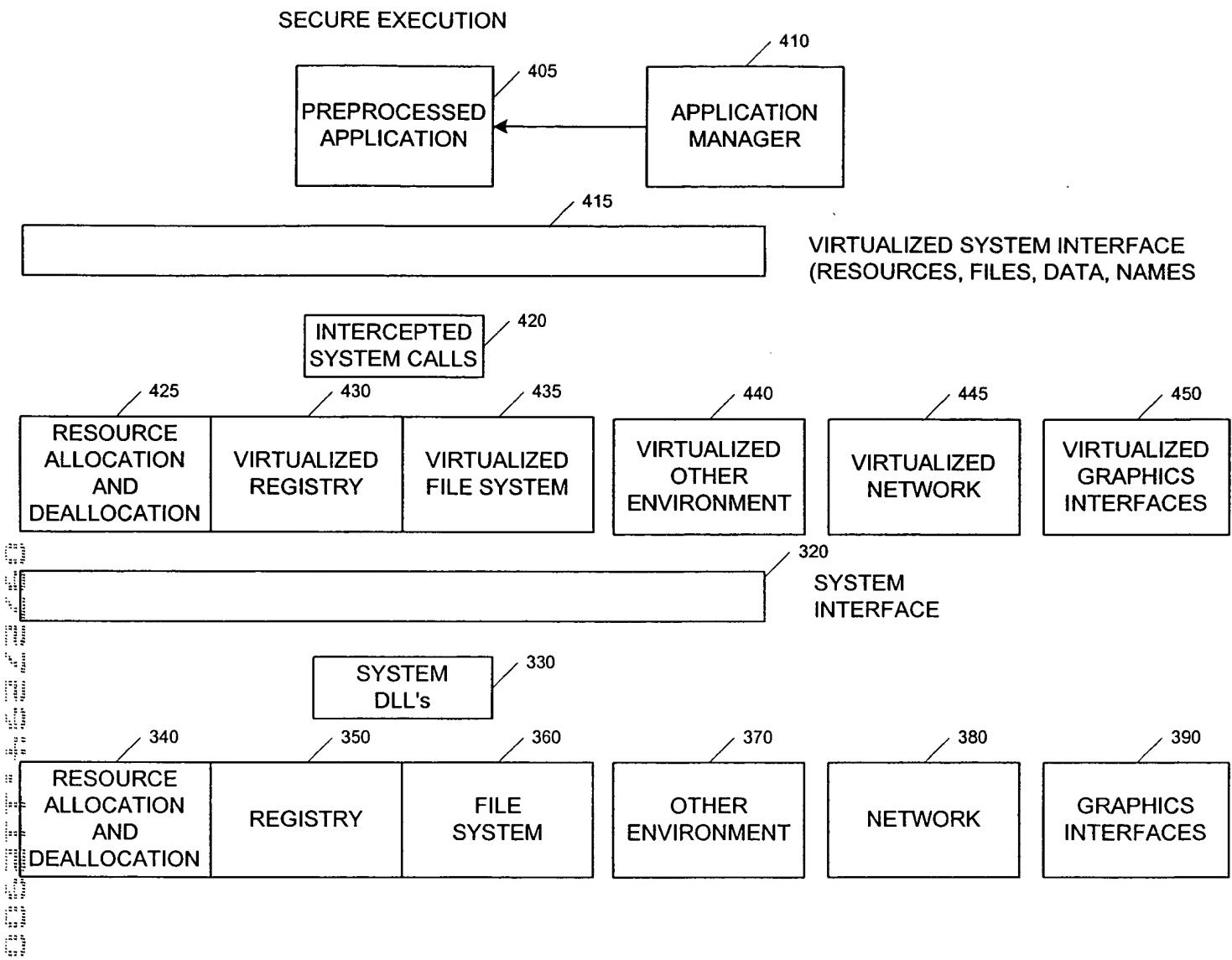


FIG. 4

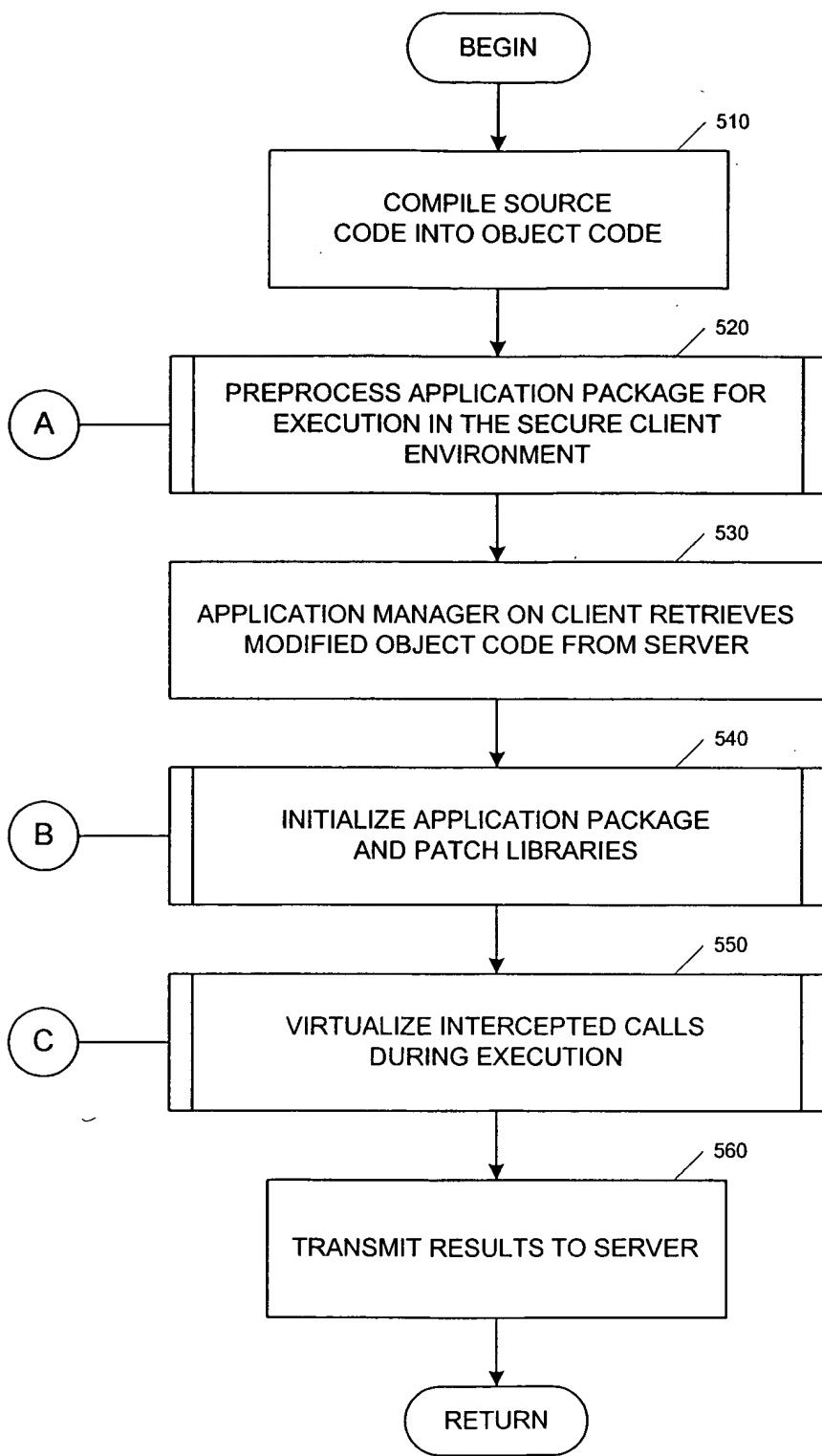


FIG. 5

A
520

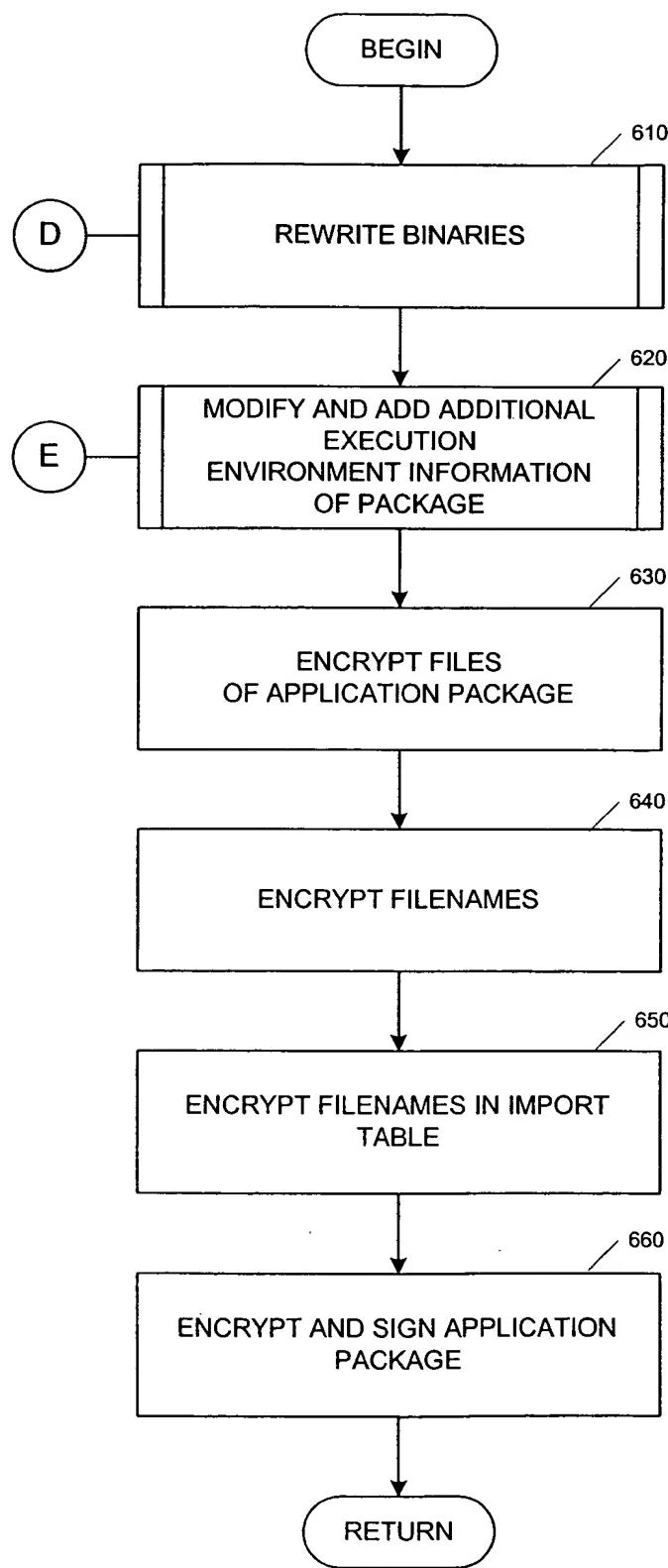


FIG. 6

D

610

BEGIN

710

SCAN FOR IMPROPER
INSTRUCTIONS OR SEQUENCESREWRITE APPLICATION
BINARY TO
INTERCEPT IMPROPER
SEQUENCES

730

IMPROPER
INSTRUCTIONS
AND SEQUENCES
IDENTIFIED?

720

REWRITE IMPORT TABLE OF
BINARIES TO ADD INTERCEPTION
MODULE

740

STORE MODIFIED
APPLICATION BINARY

760

RETURN

FIG. 7

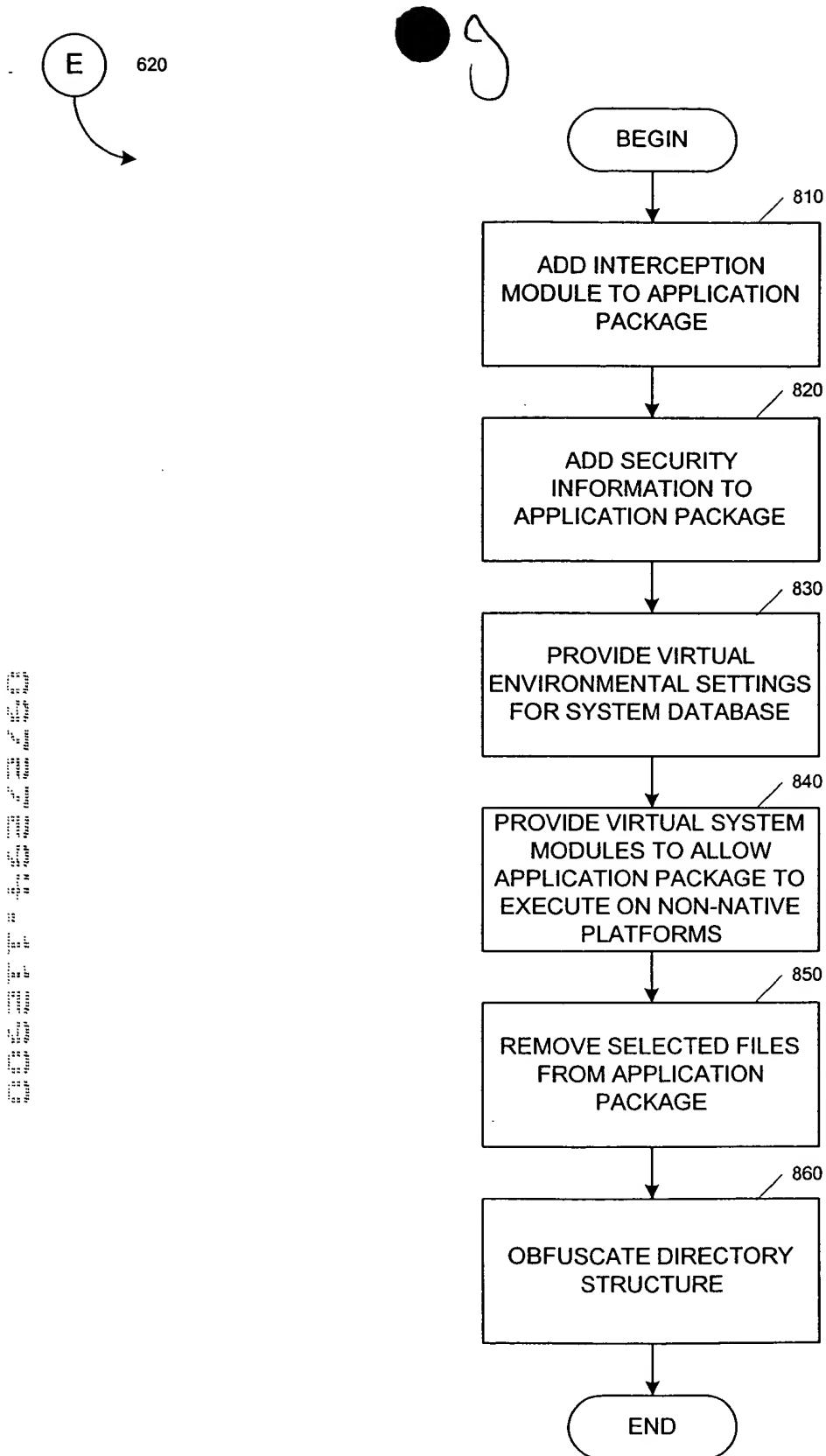


FIG. 8

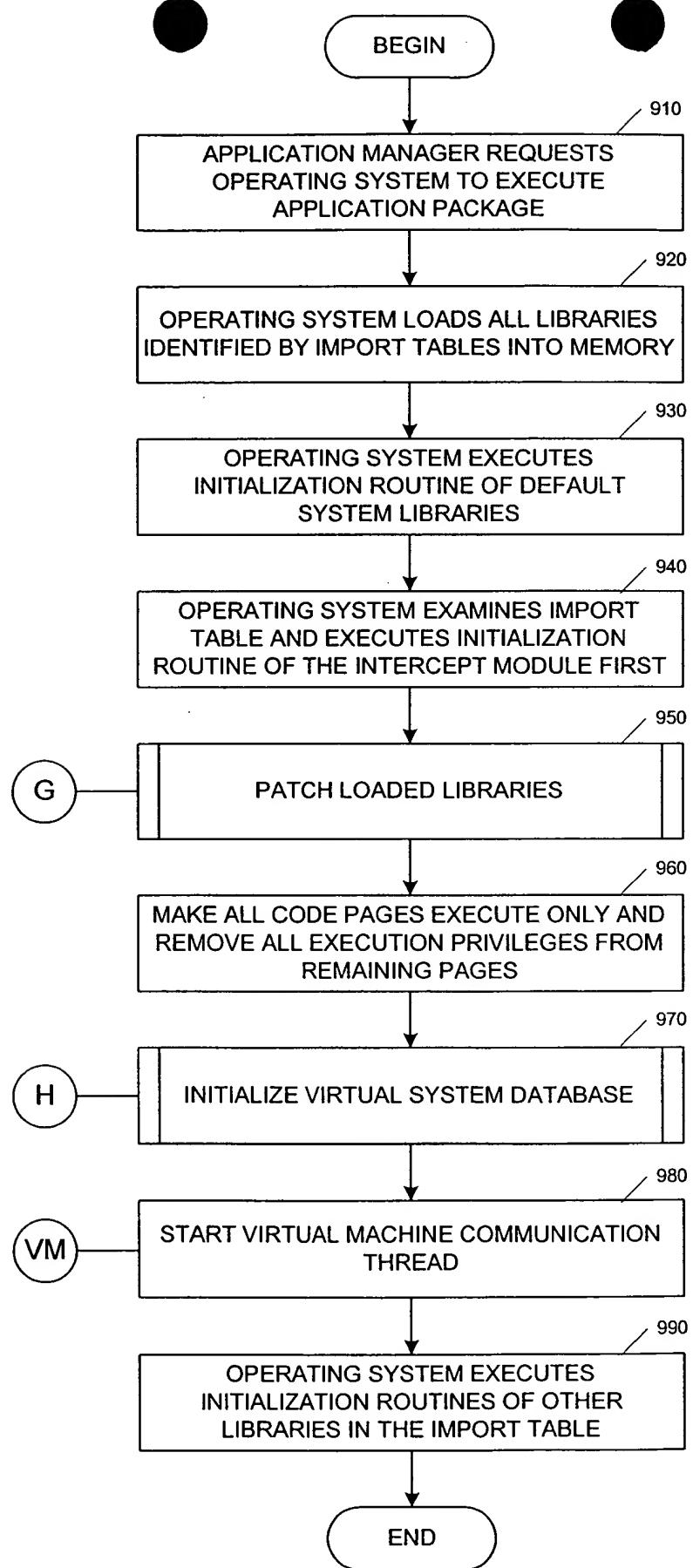


FIG. 9

G 950

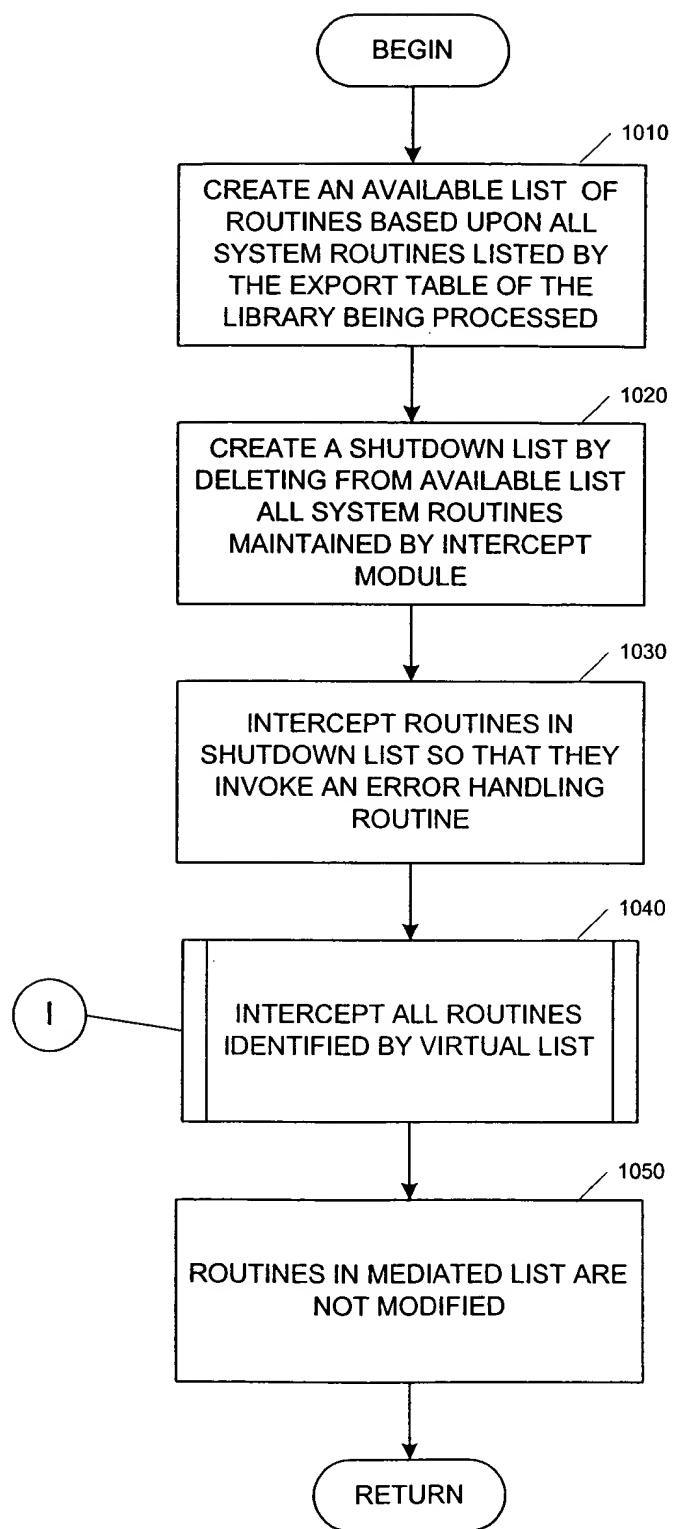


FIG. 10

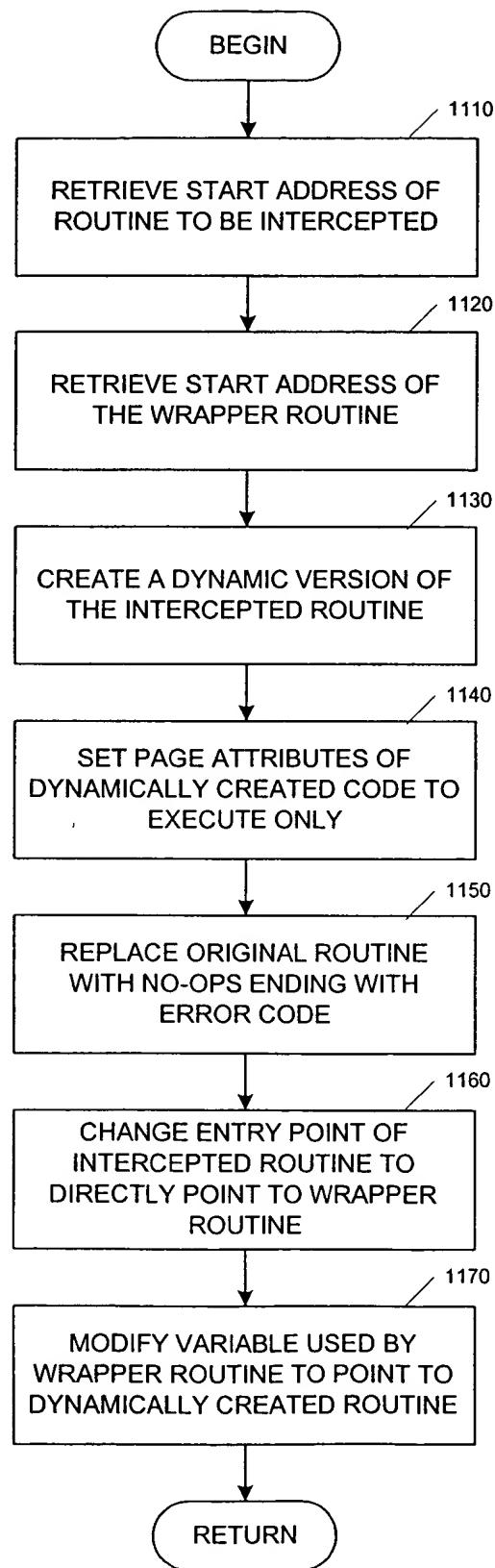


FIG. 11

H 970

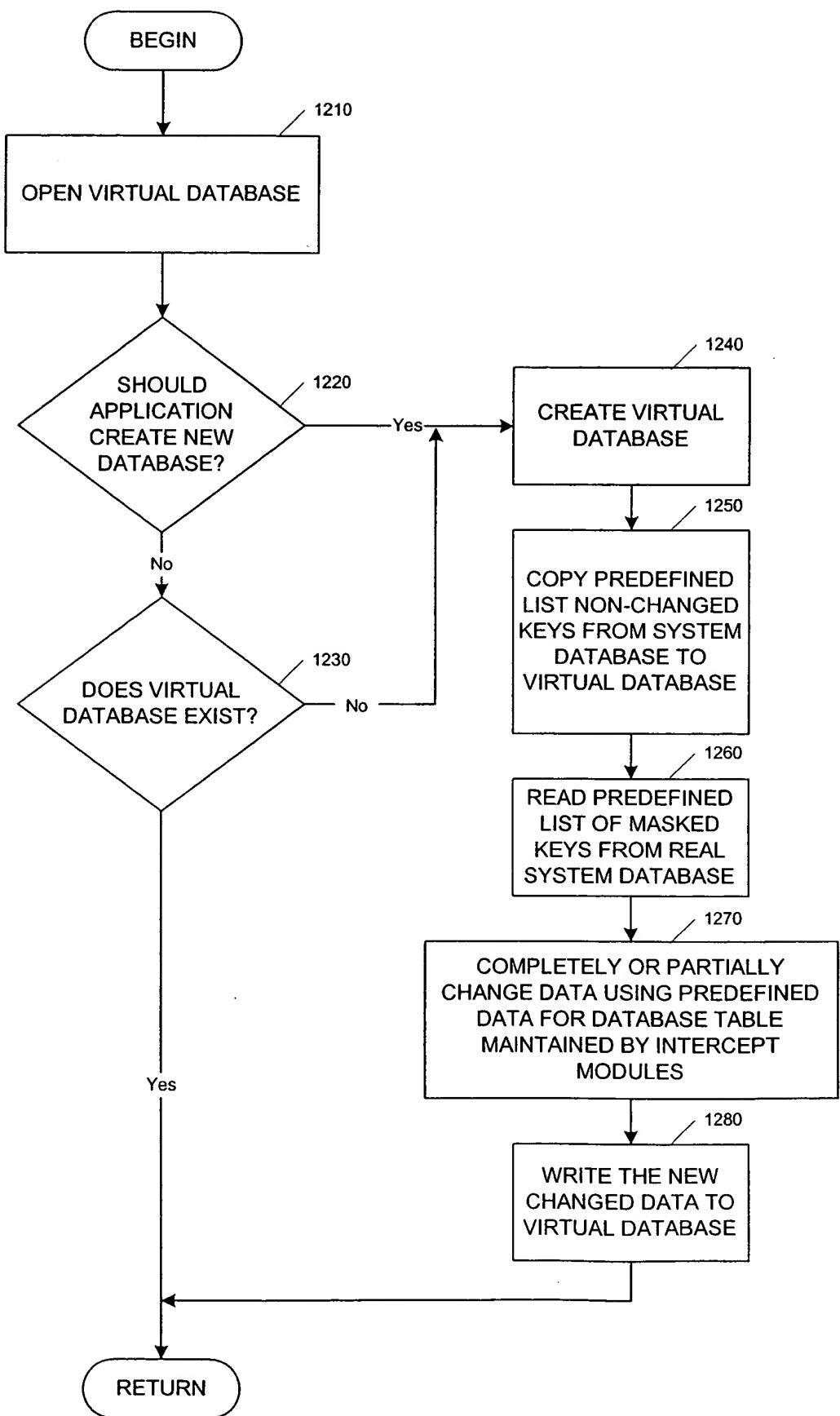


FIG. 12

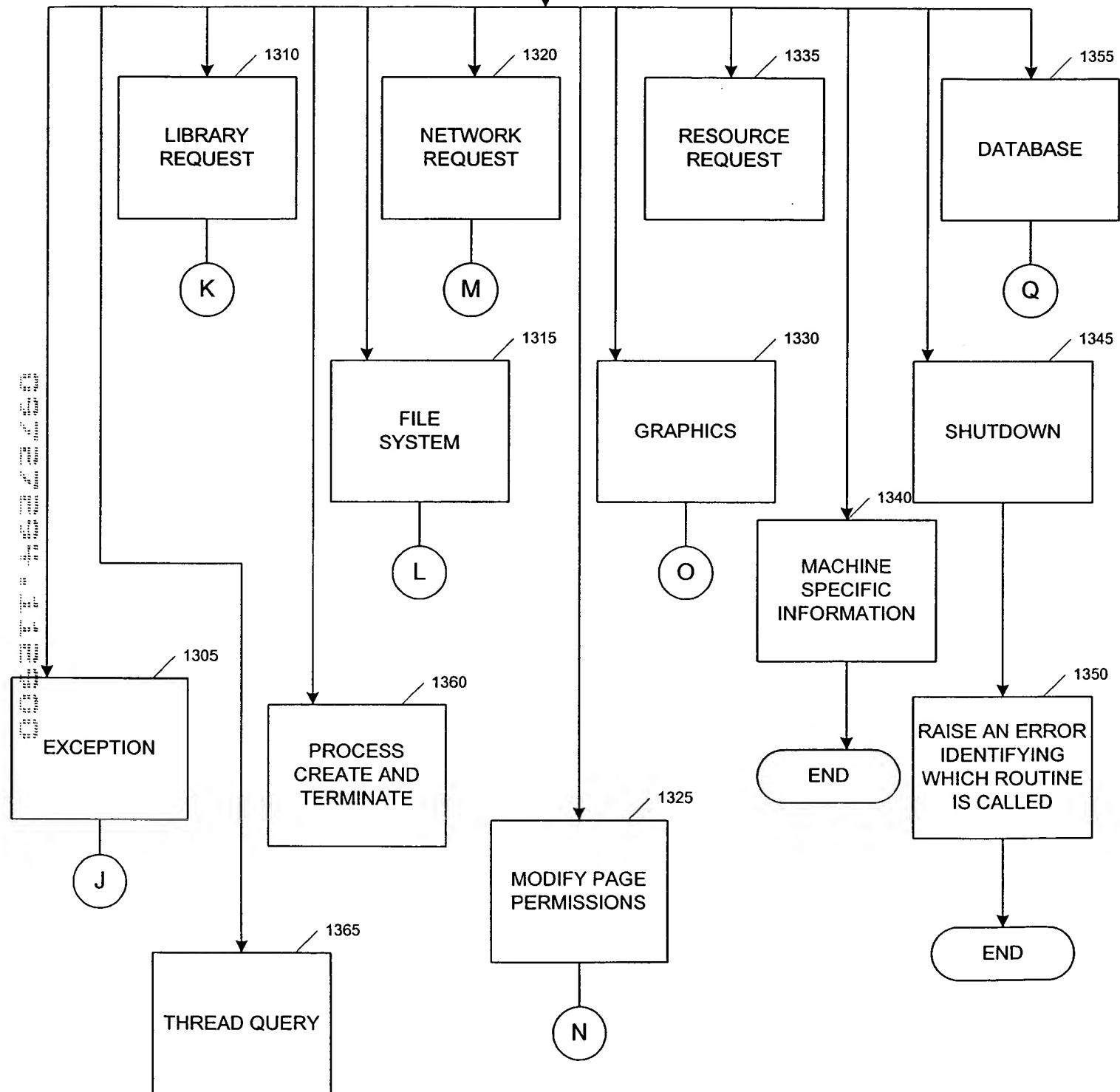


FIG. 13

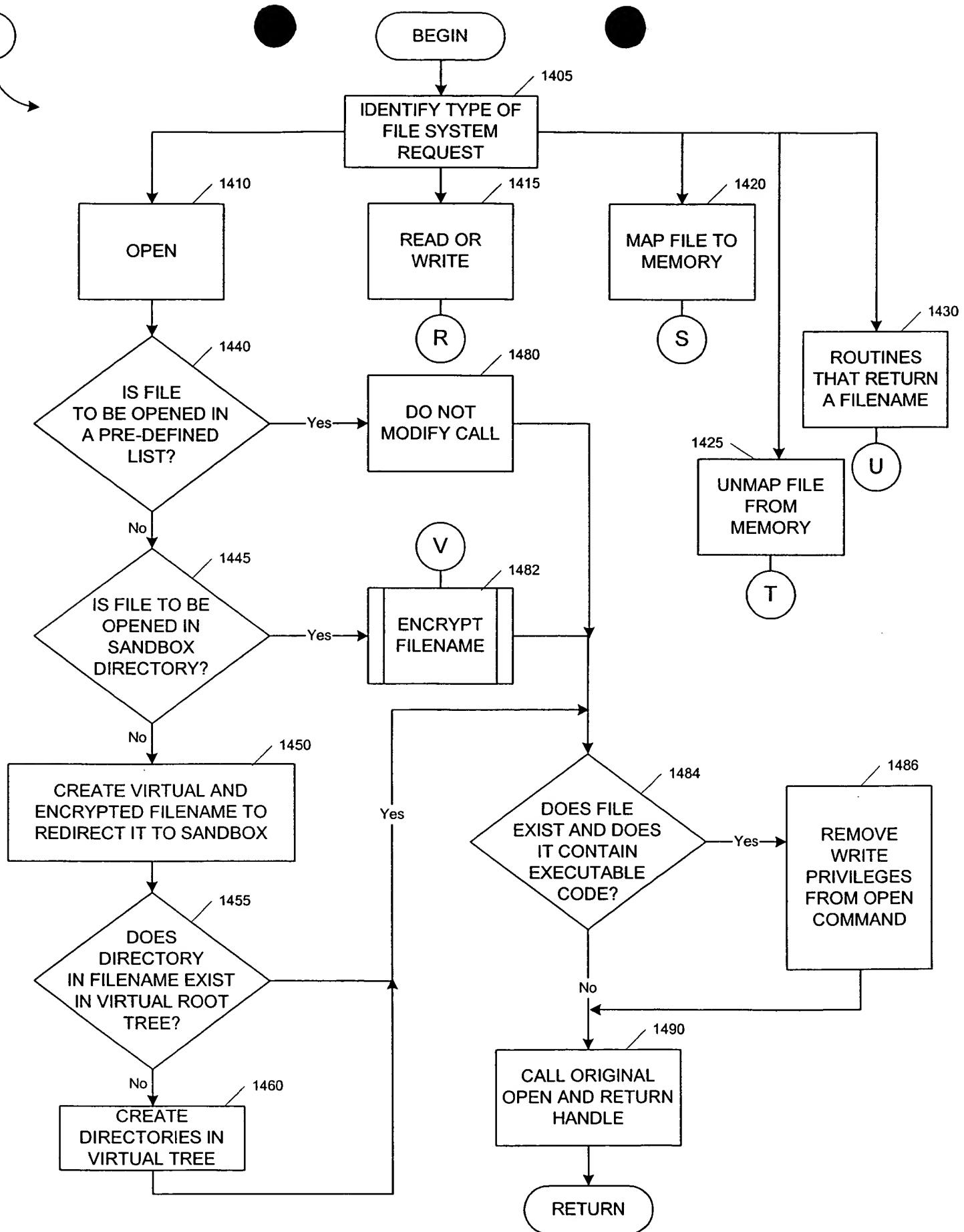


FIG. 14

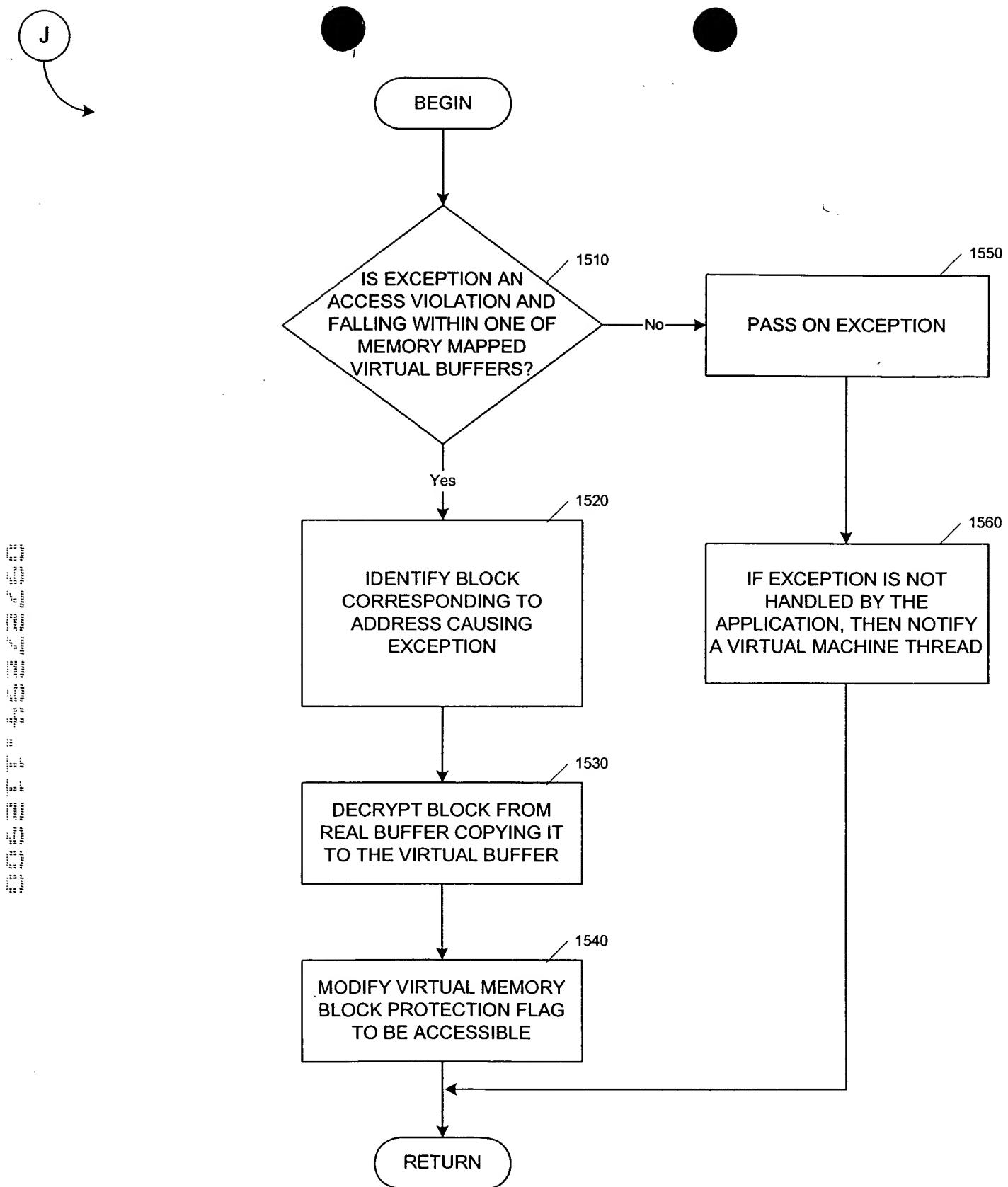


FIG. 15

00000000000000000000000000000000

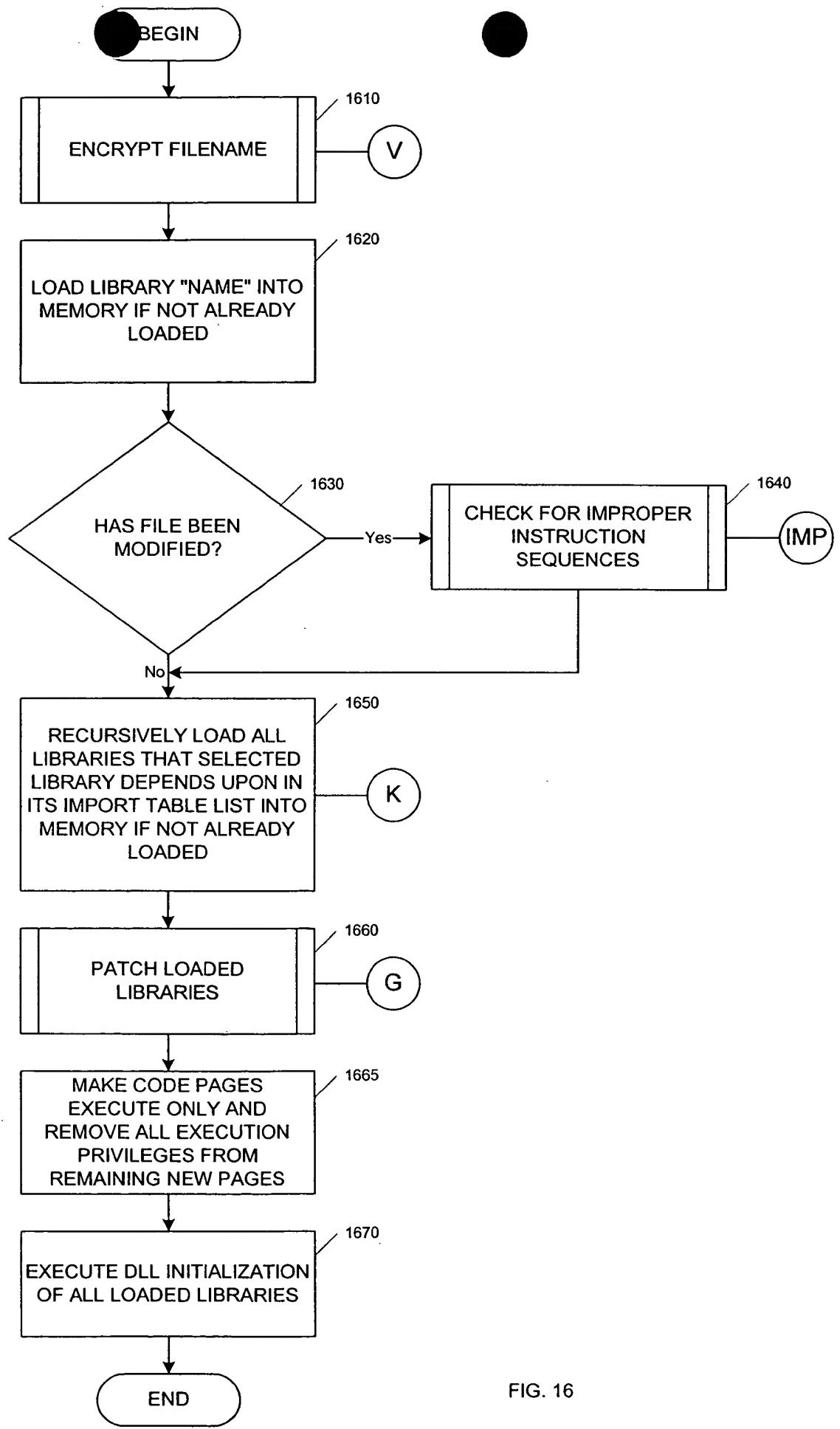


FIG. 16

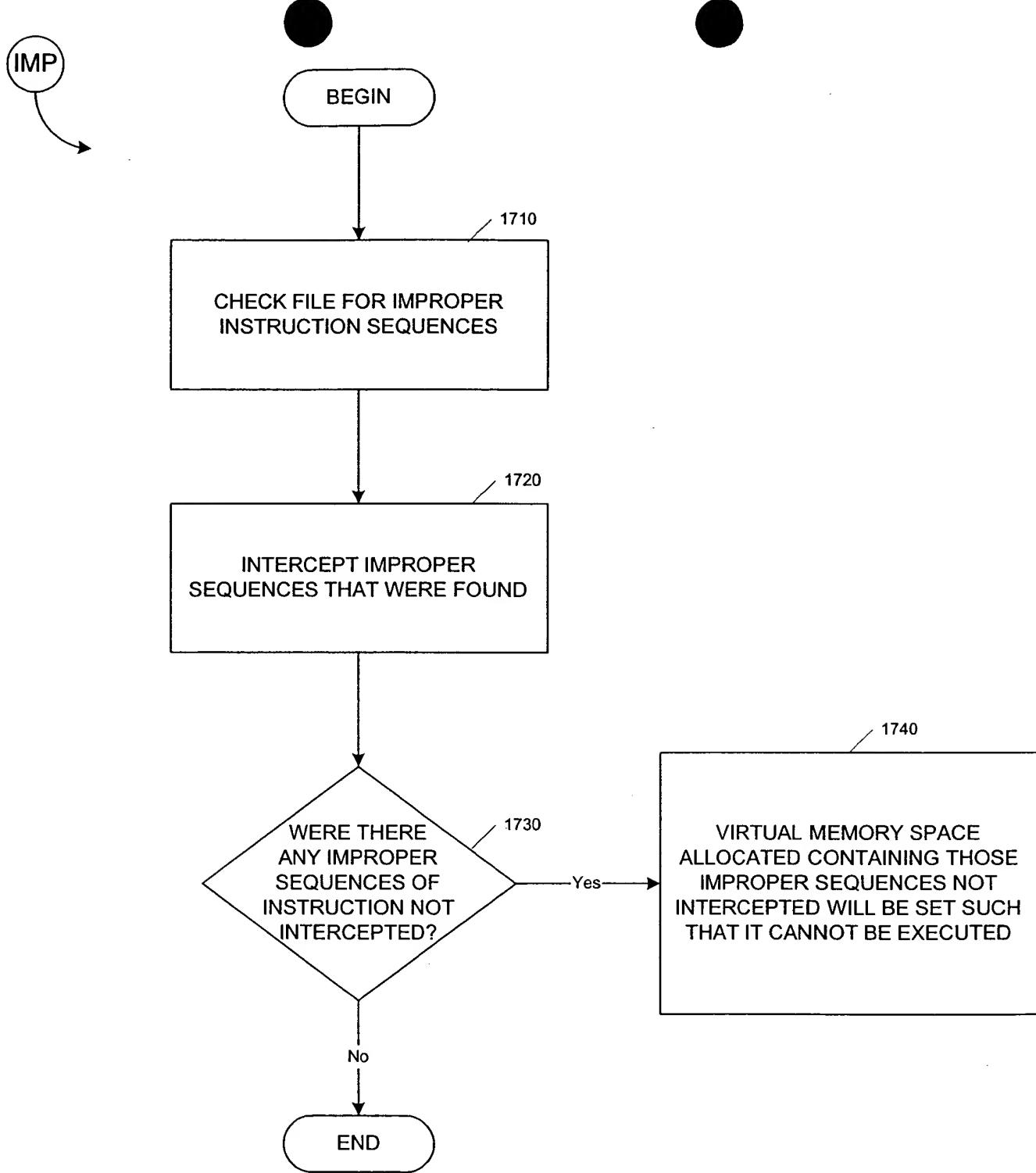


FIG. 17

M

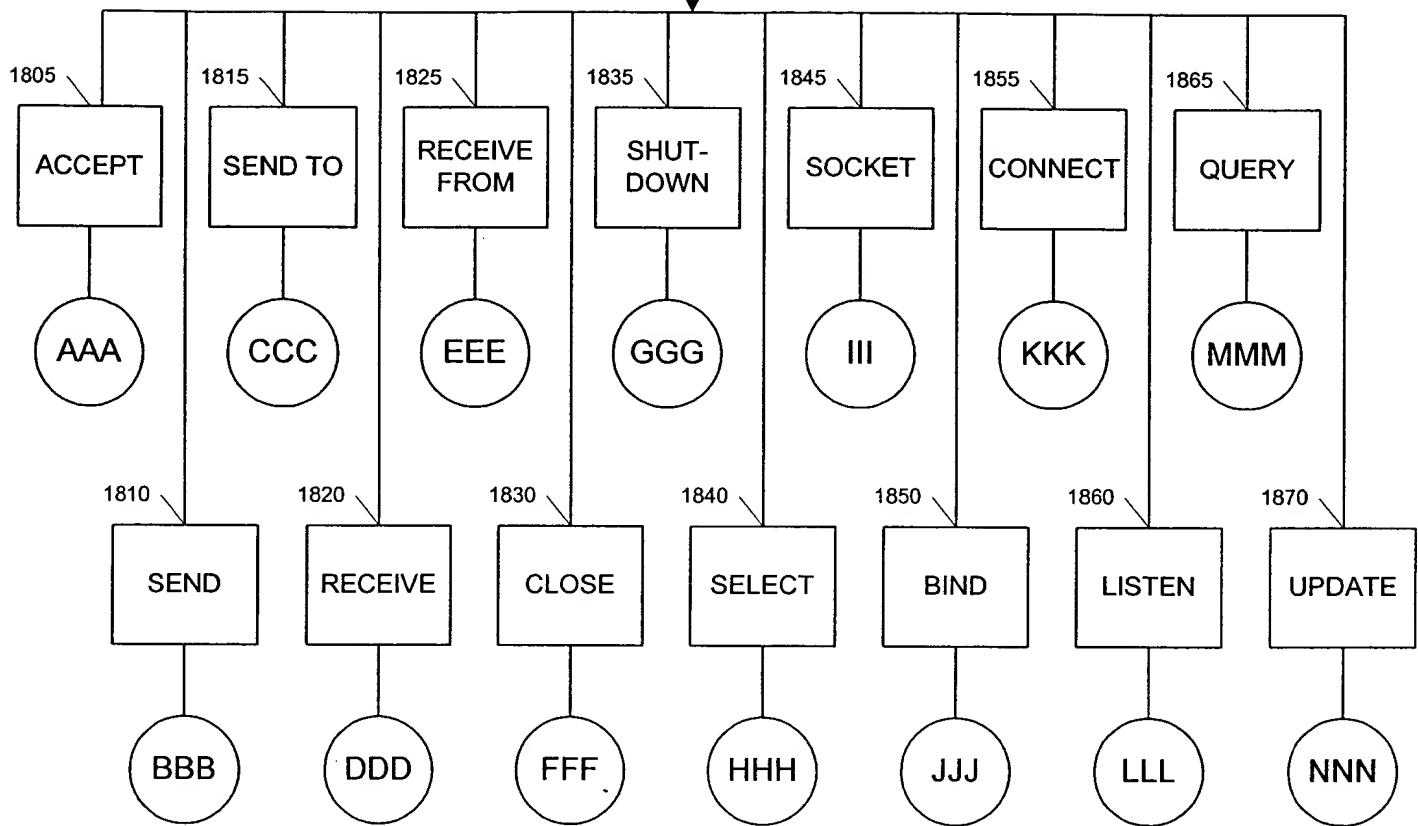
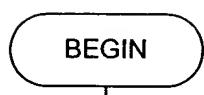


FIG. 18

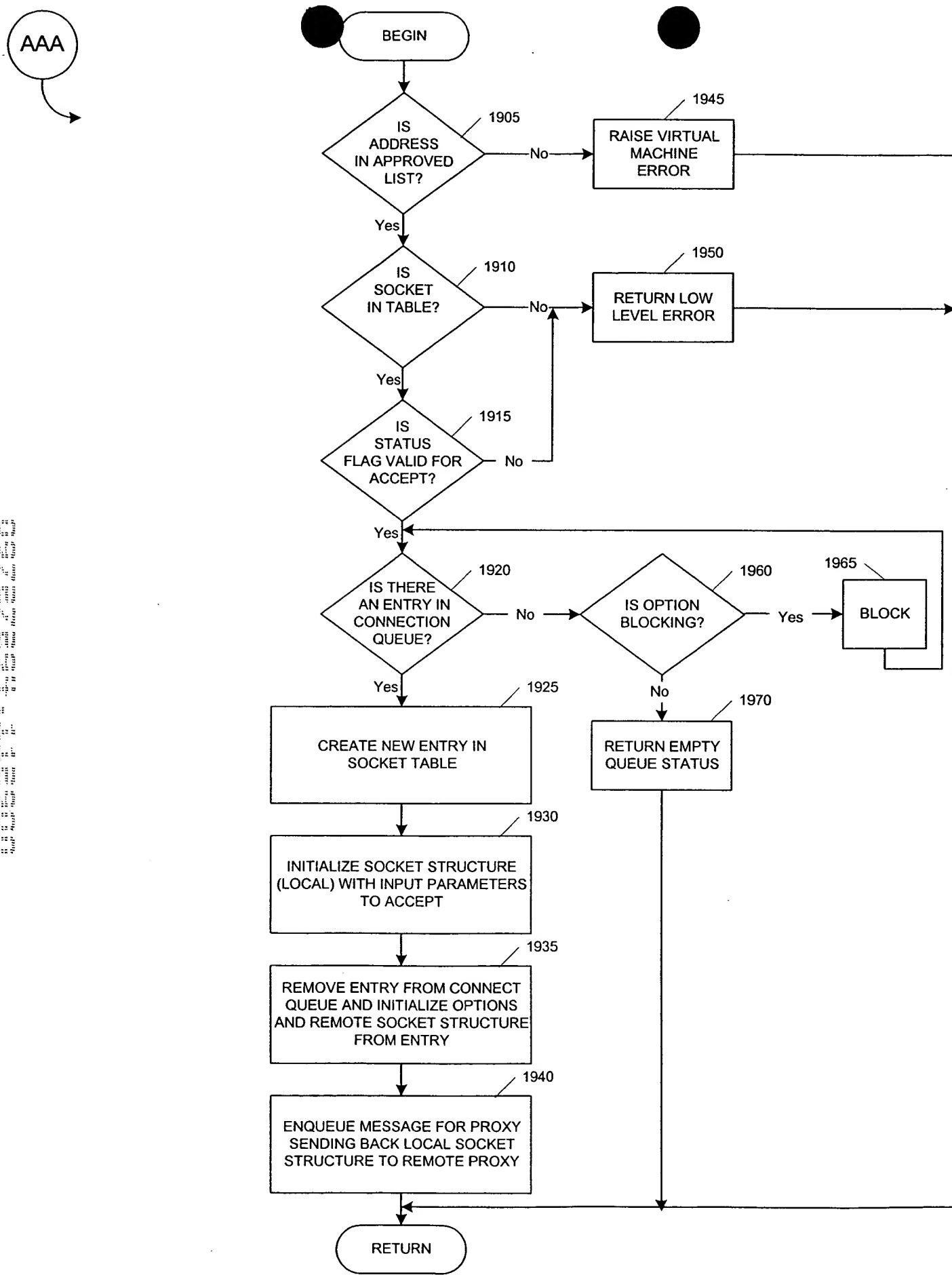


FIG. 19

BBB

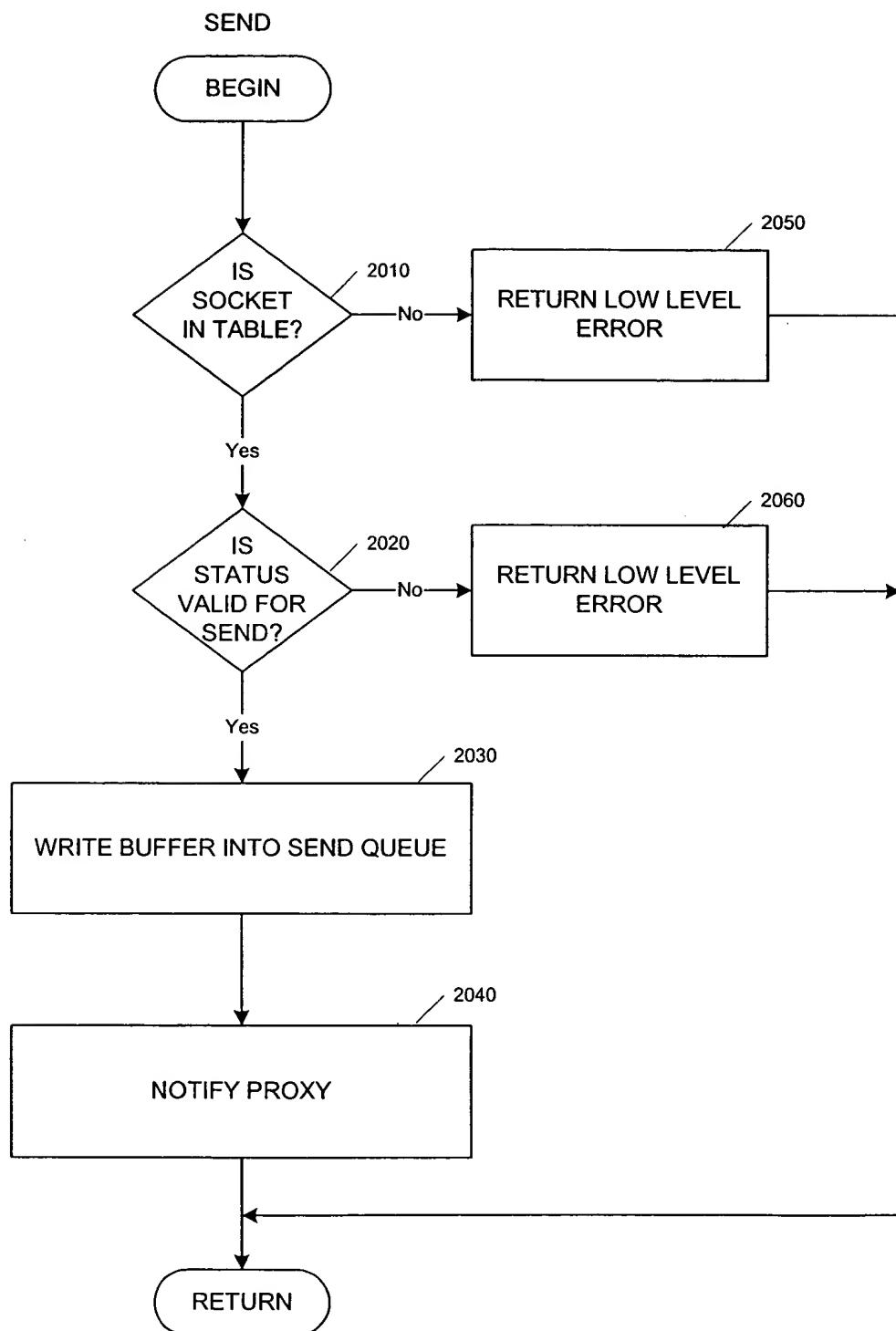


FIG. 20

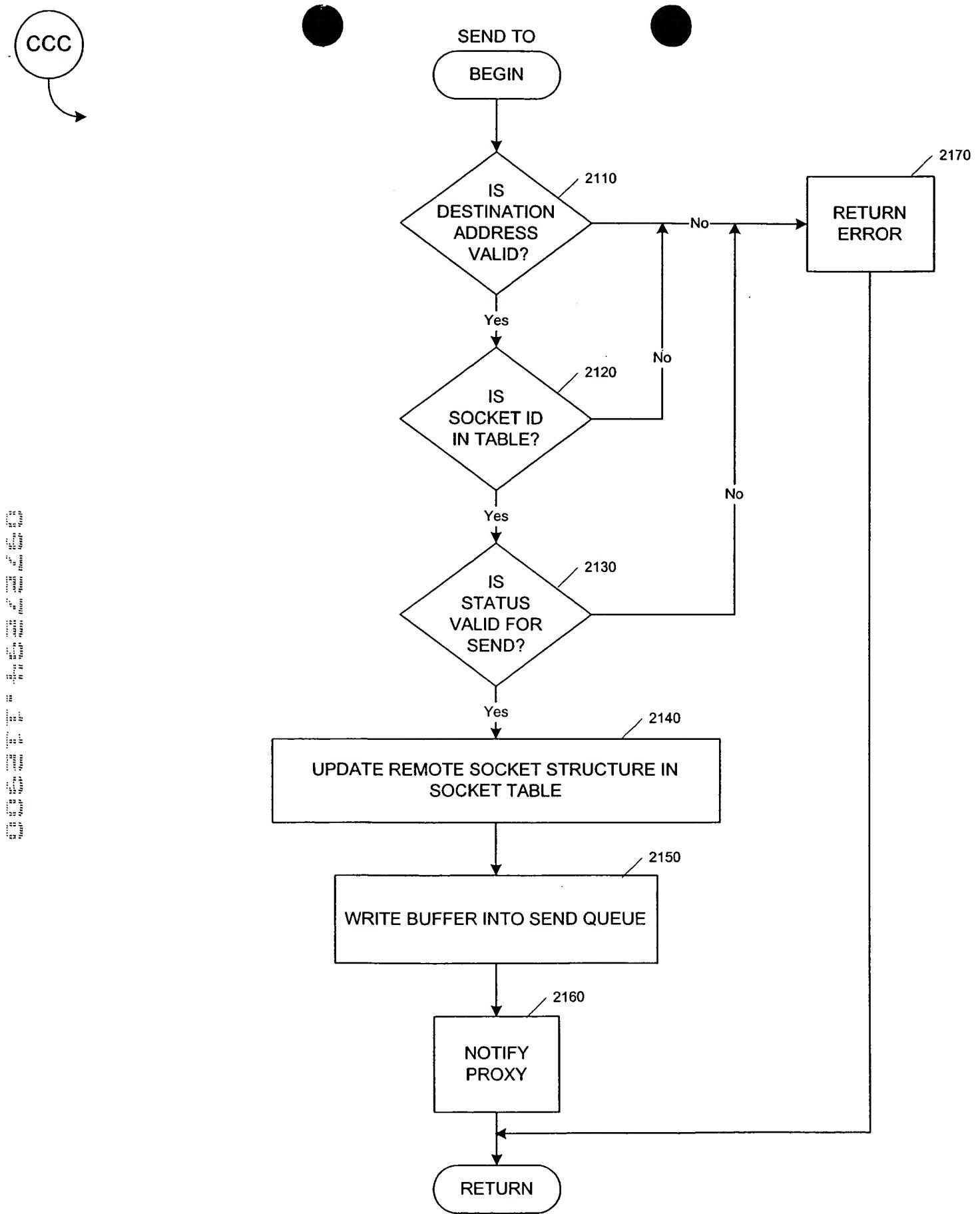


FIG. 21

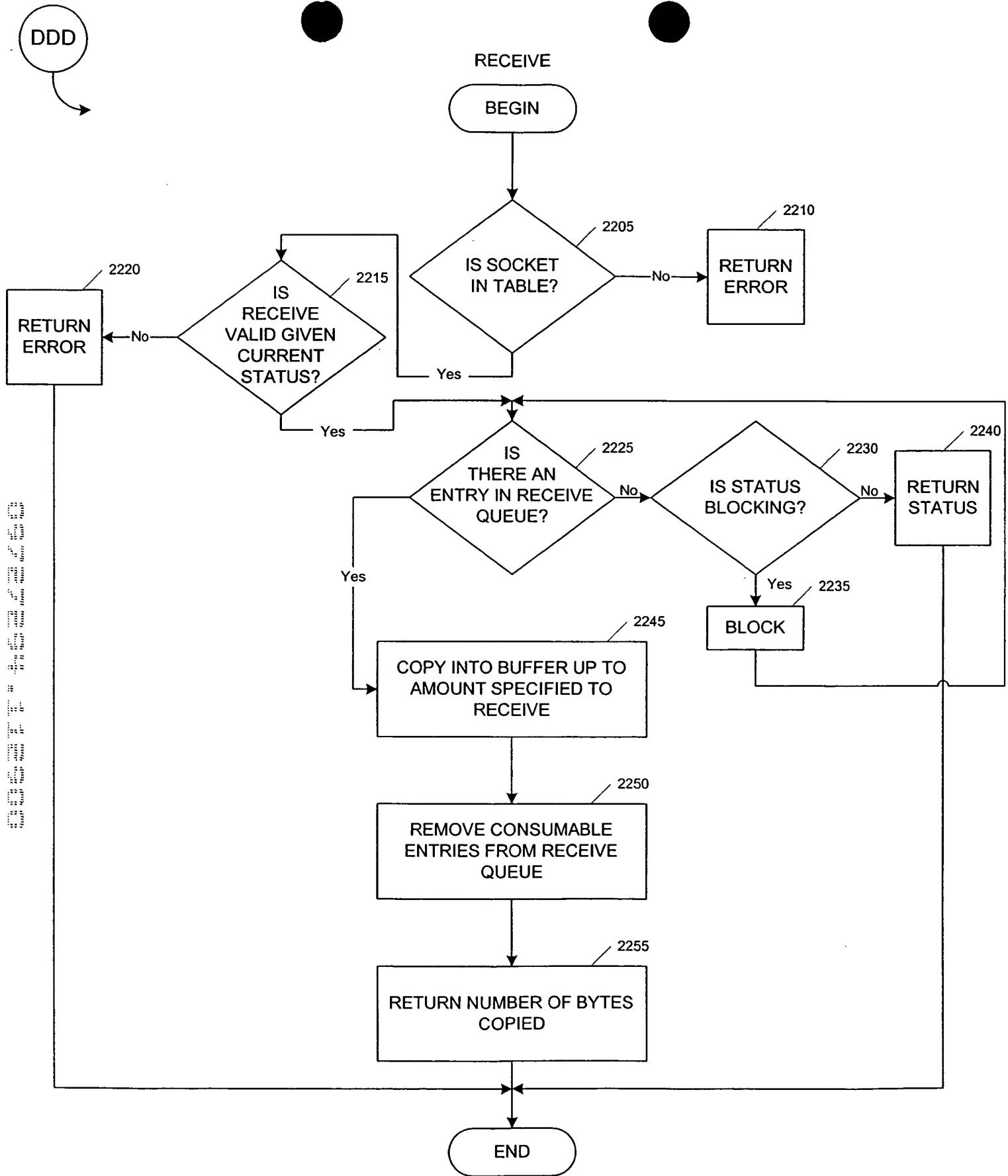


FIG. 22

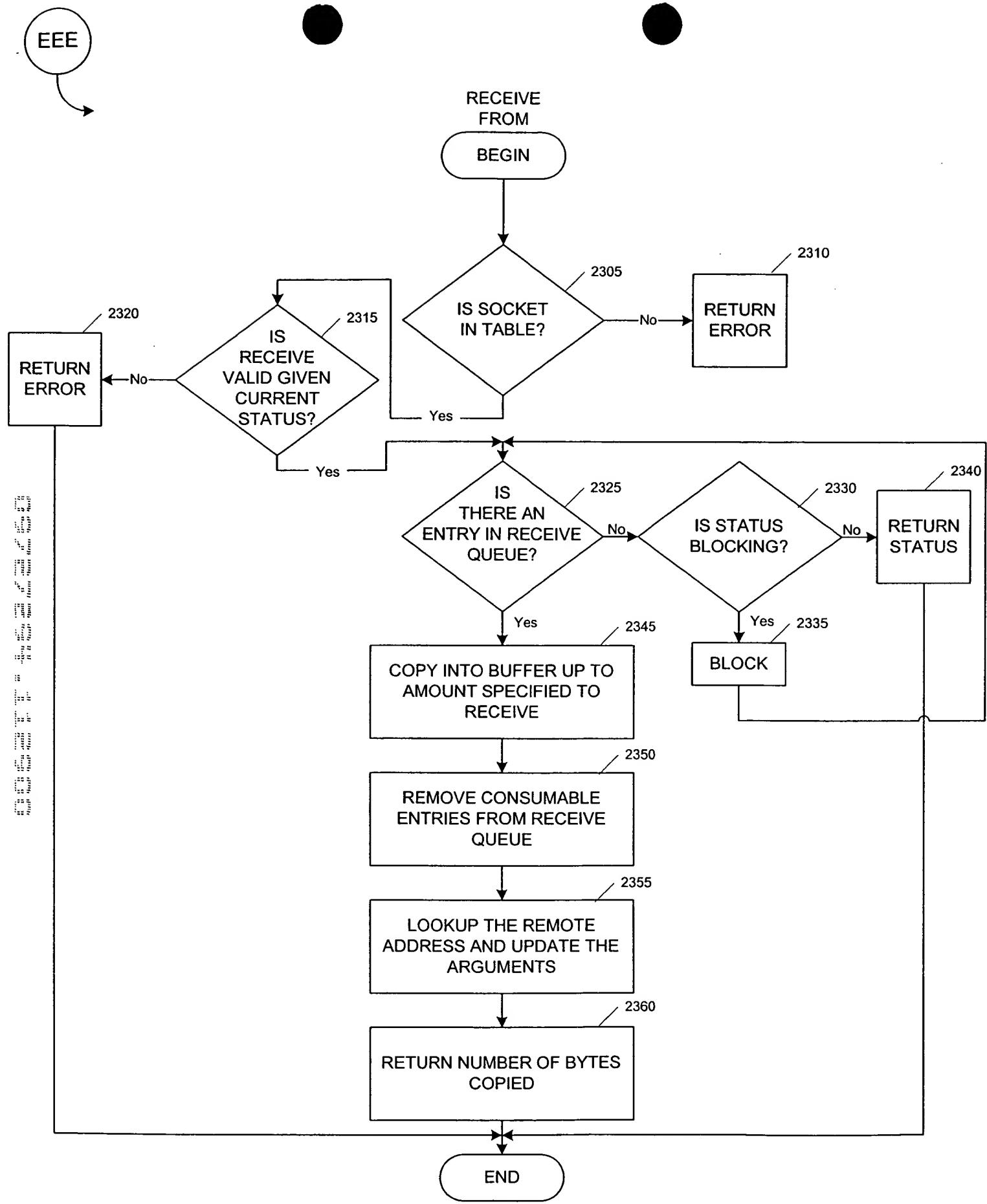


FIG. 23

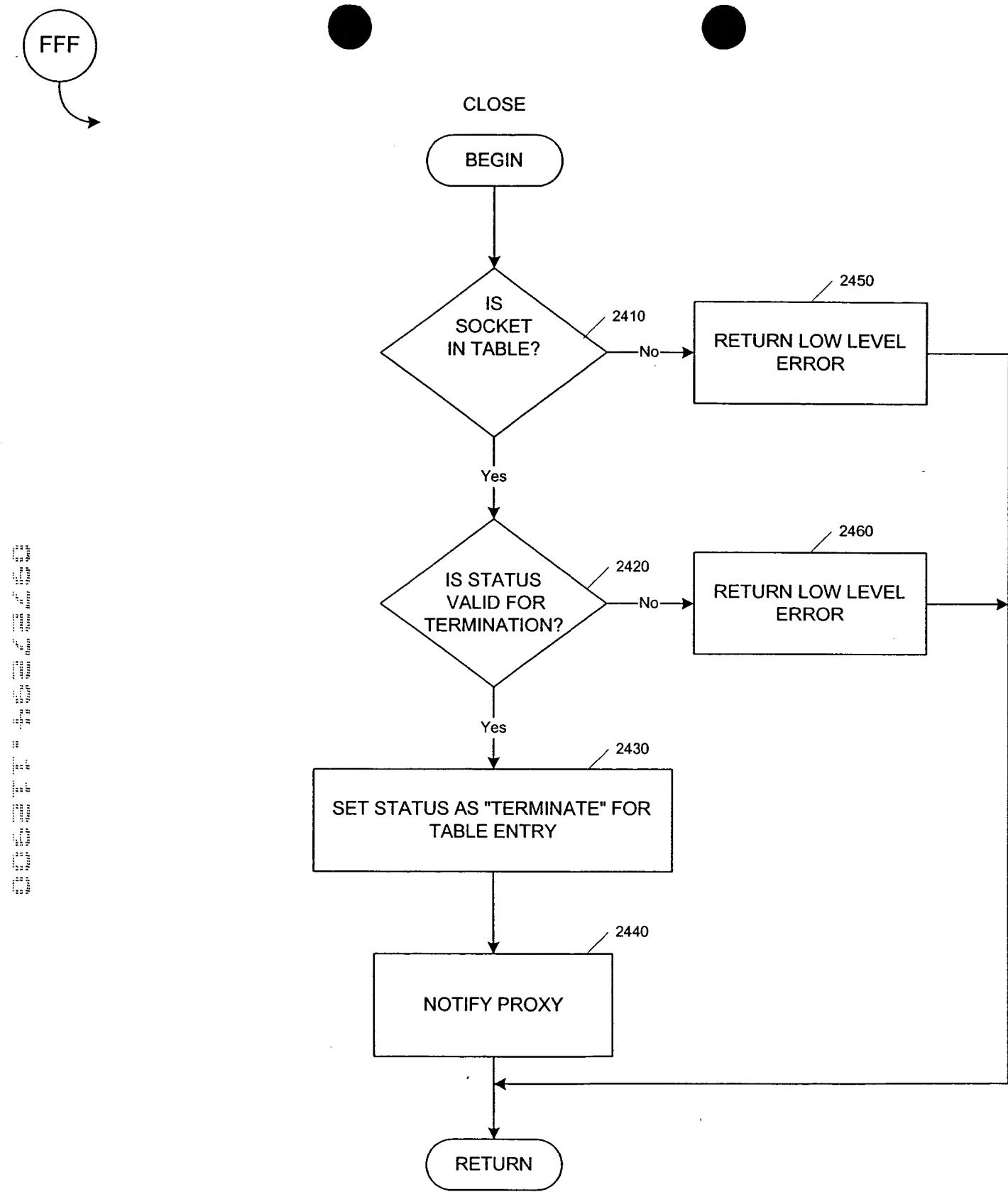


FIG. 24

GGG

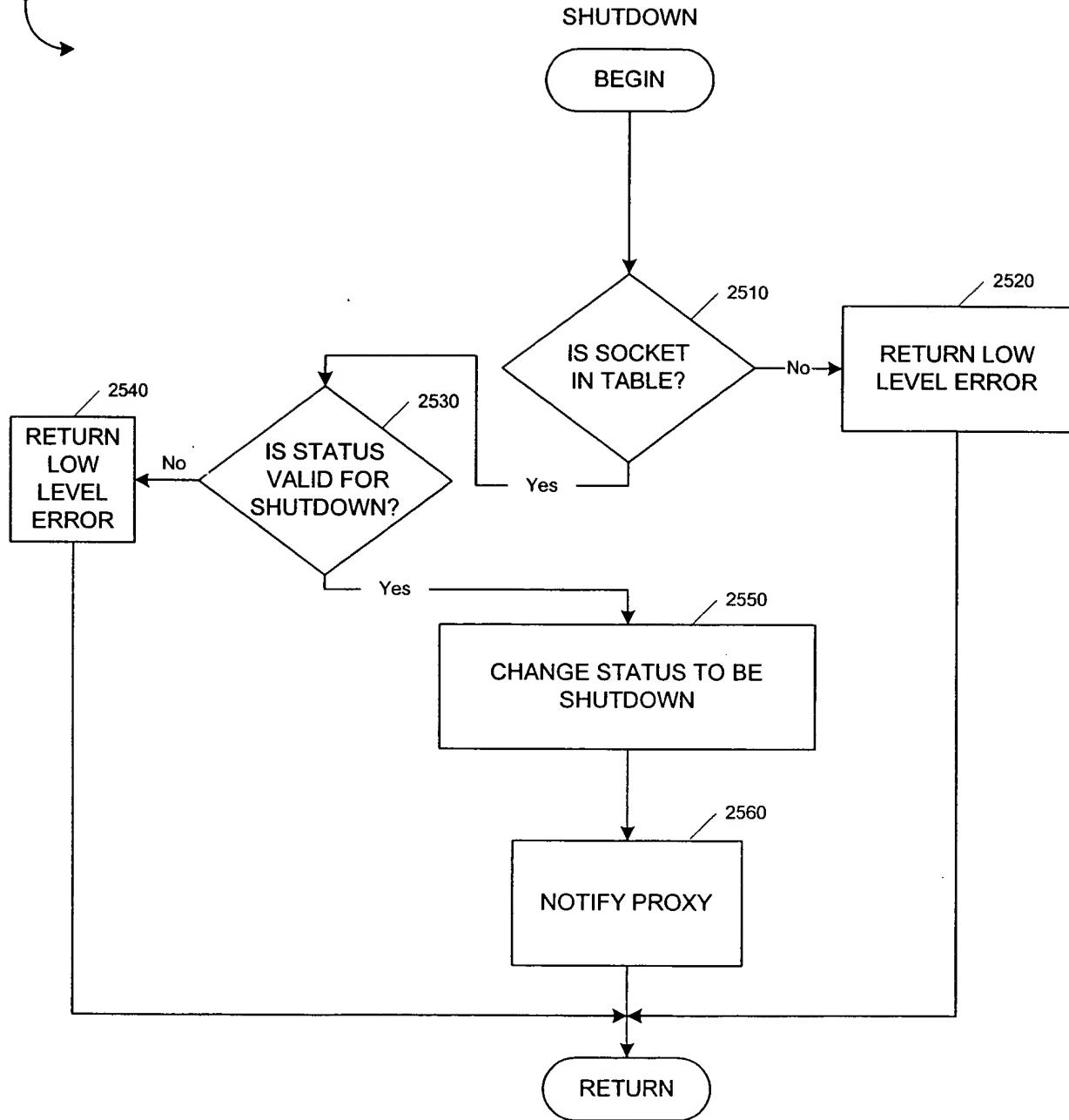


FIG. 25

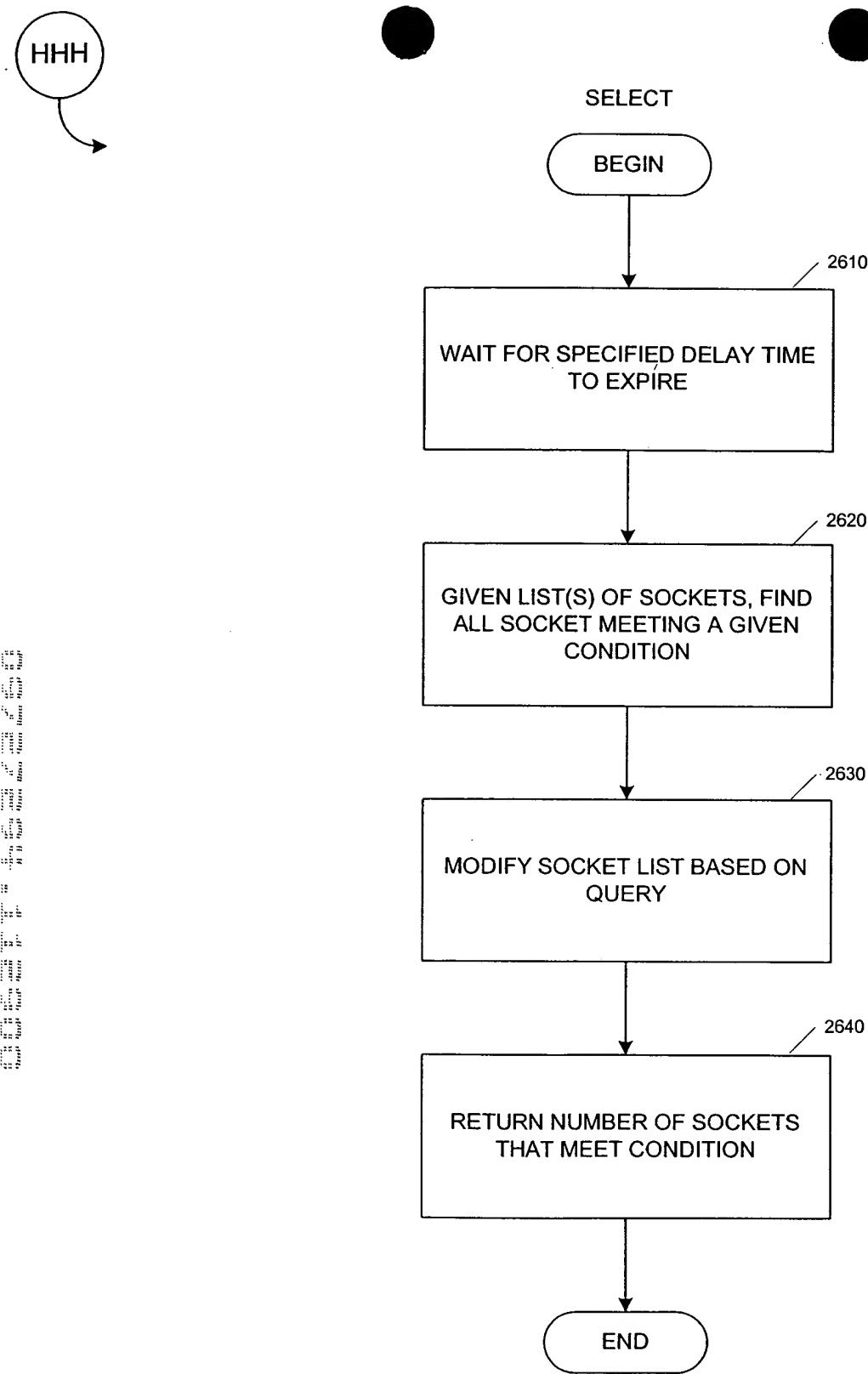


FIG. 26

III

1845

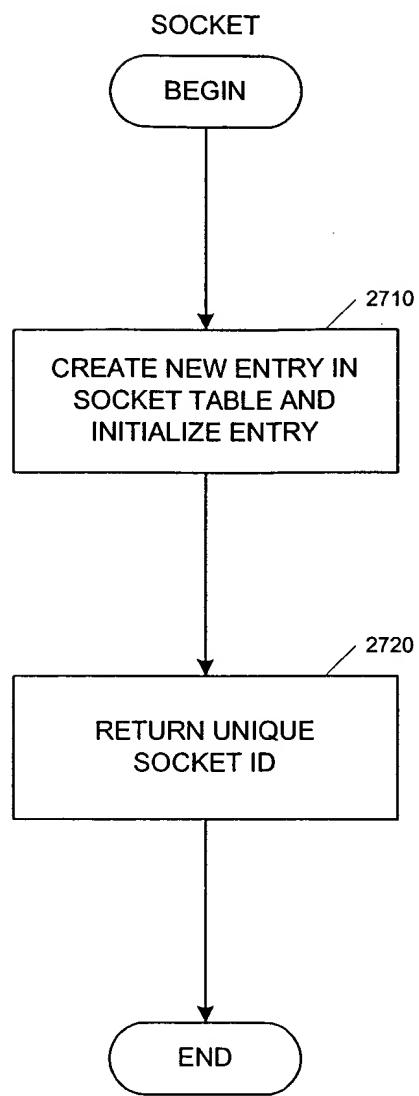


FIG. 27

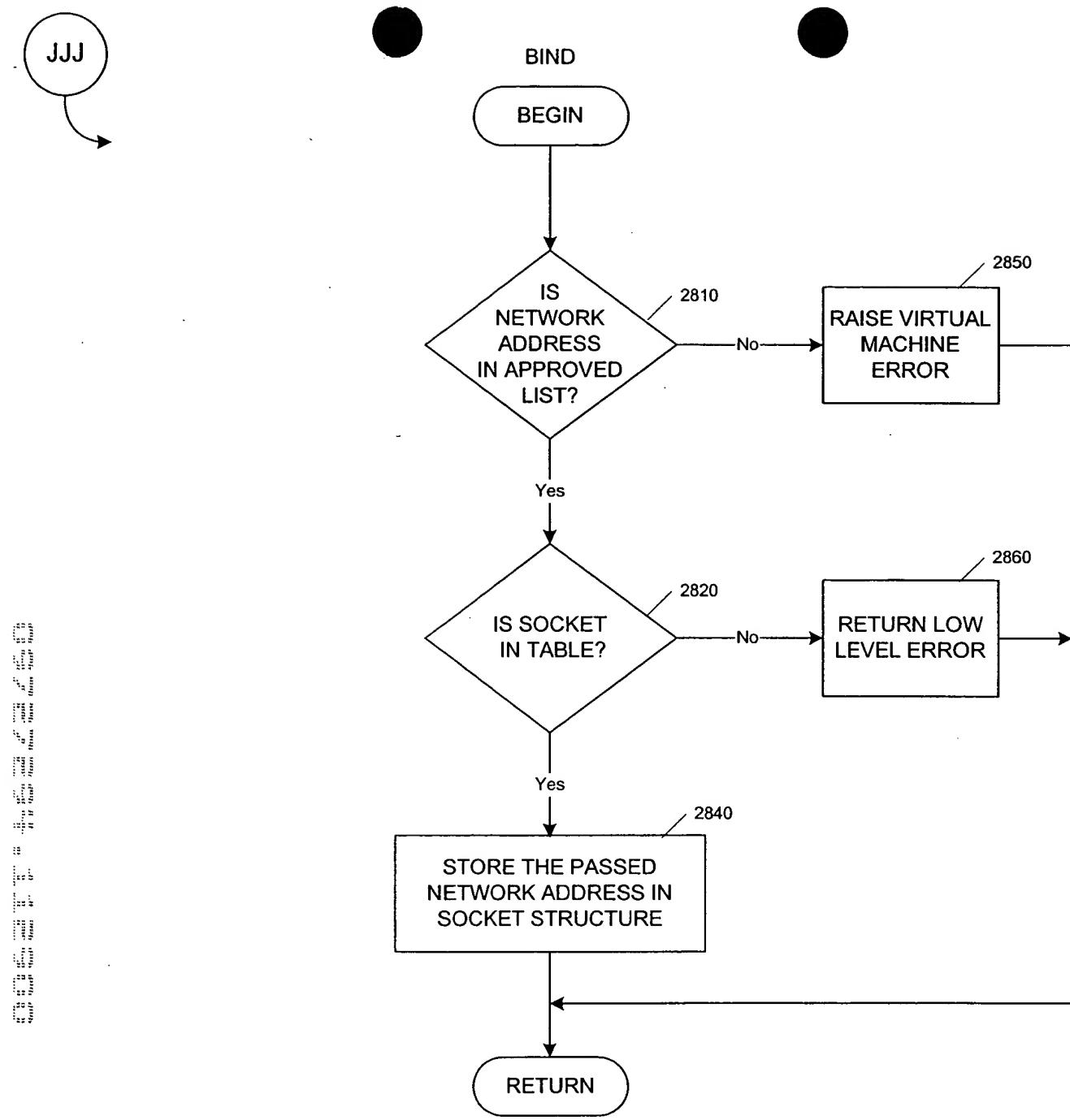


FIG. 28

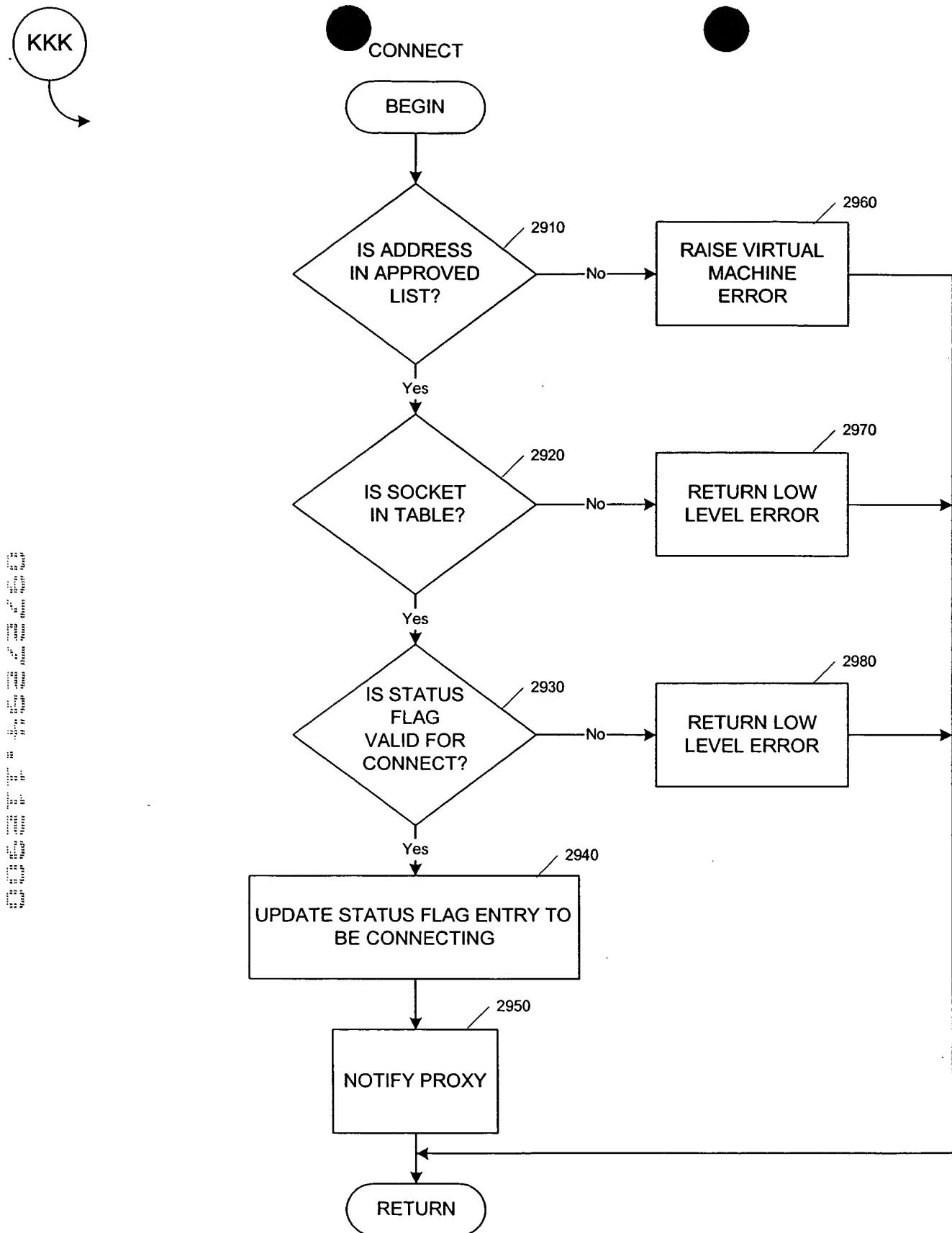


FIG. 29

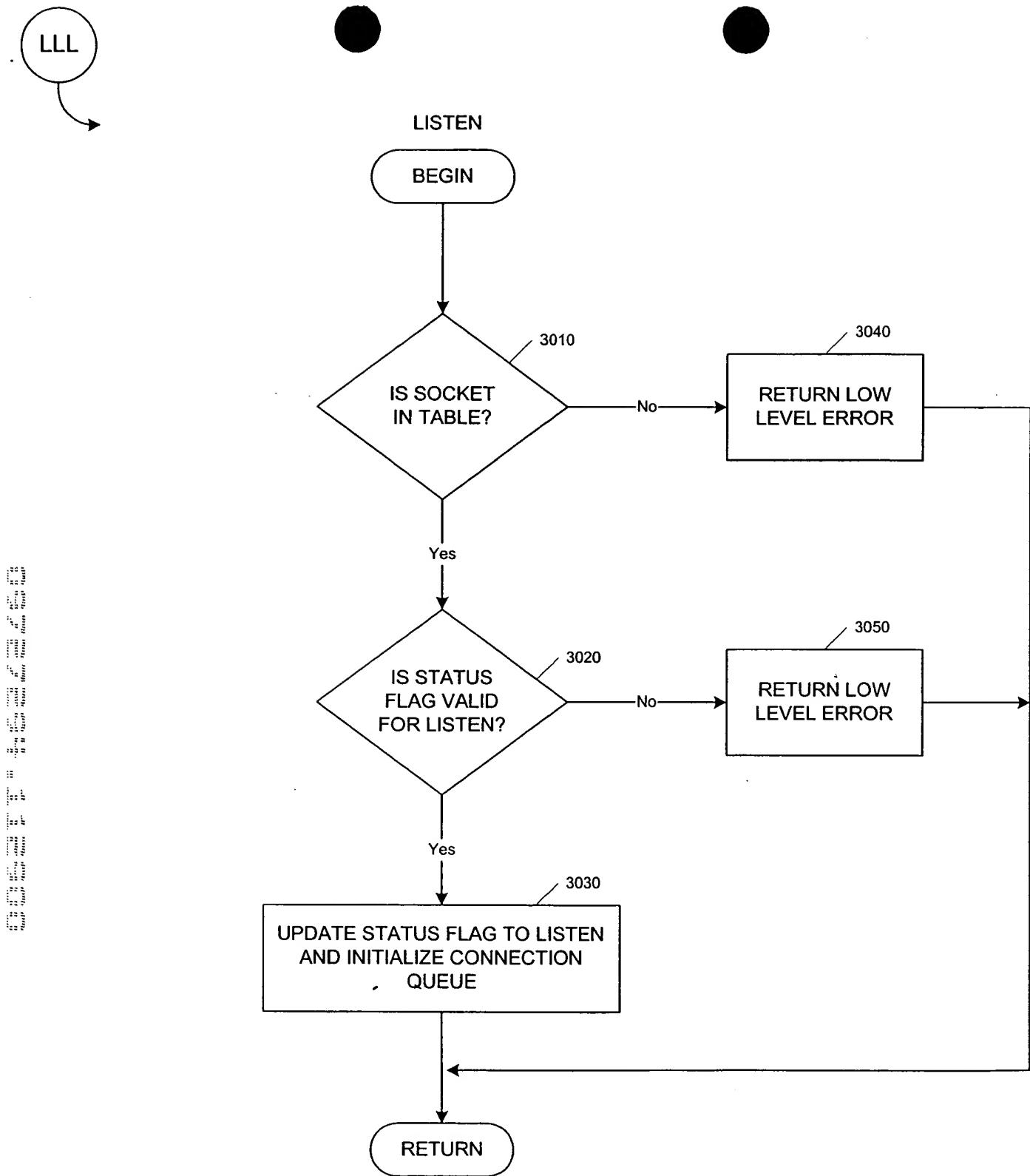


FIG. 30

MMM

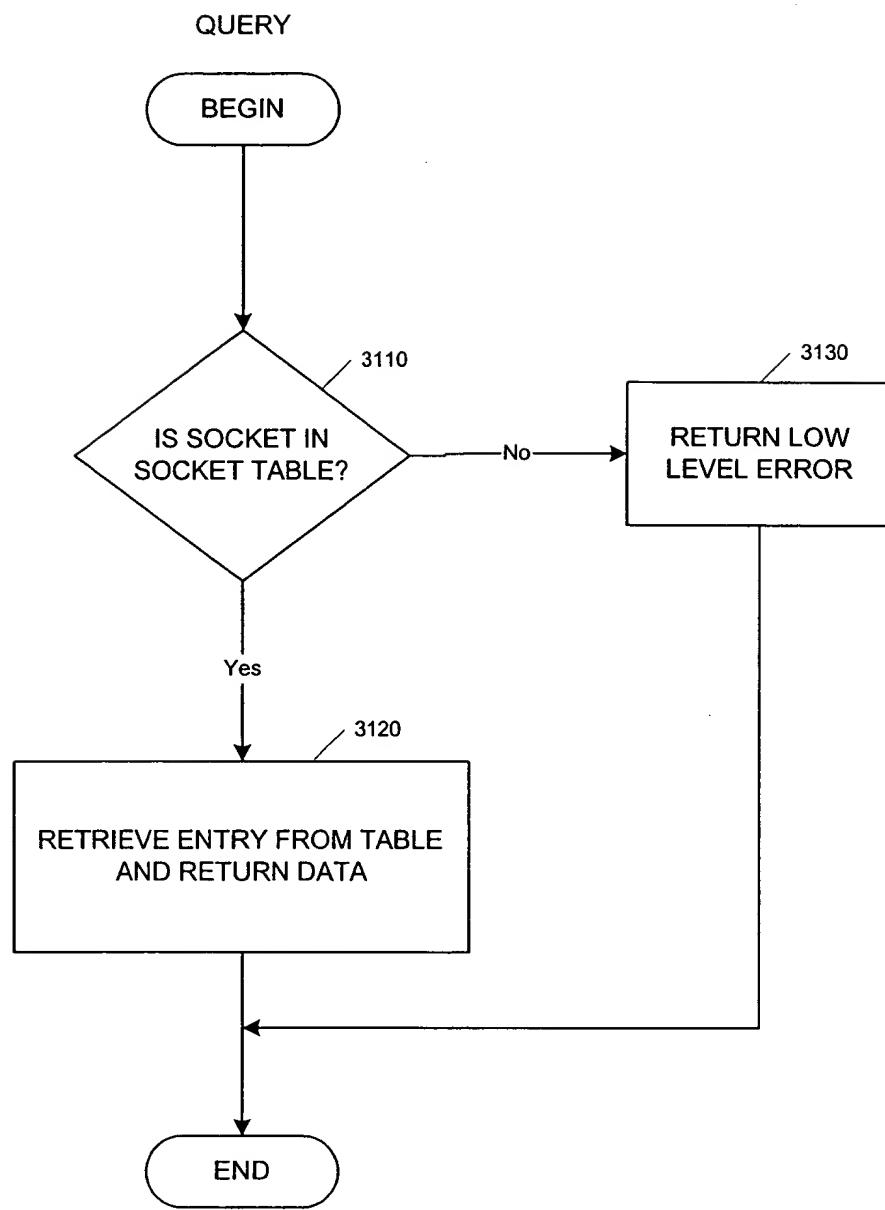


FIG. 31

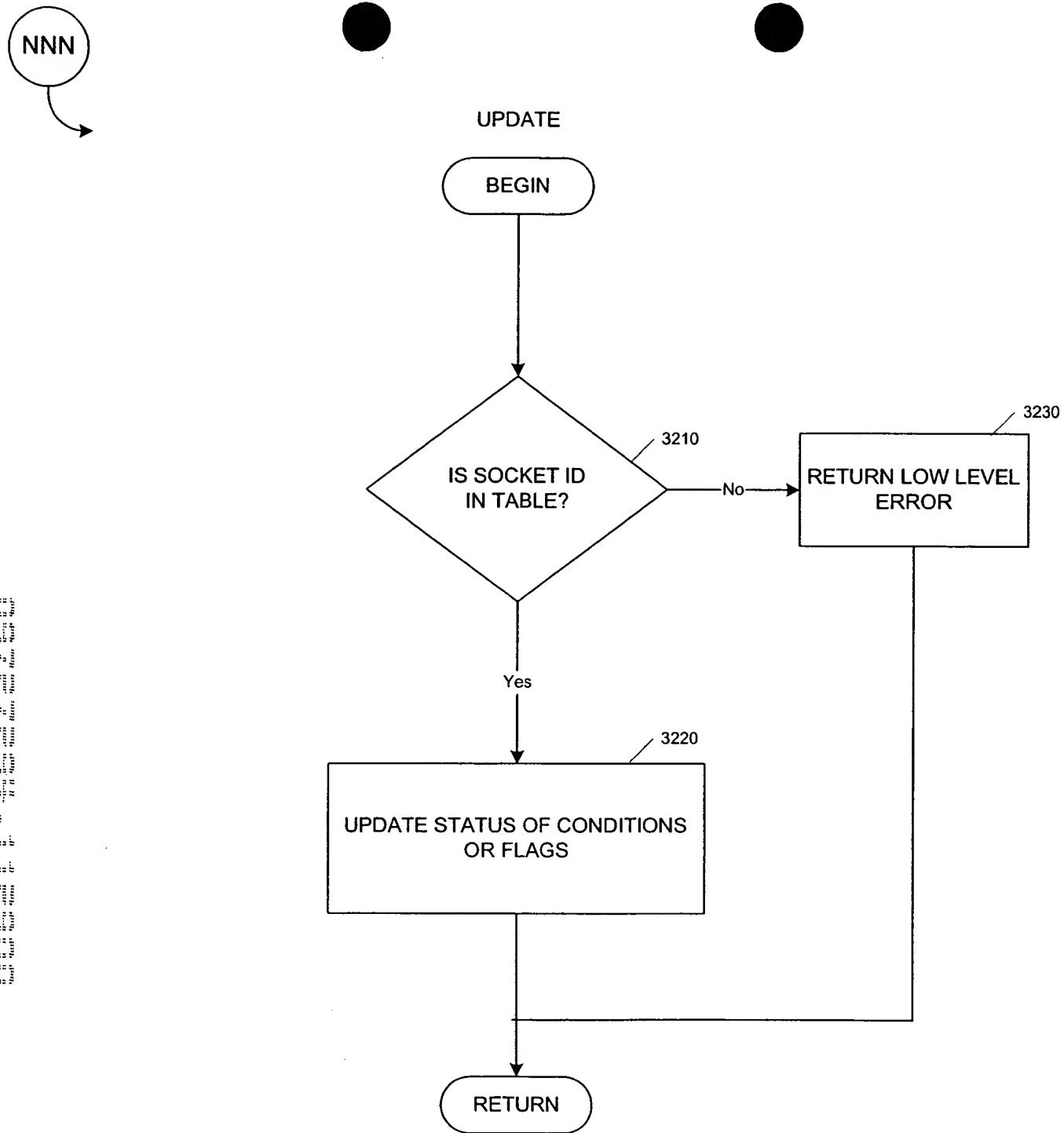


FIG. 32

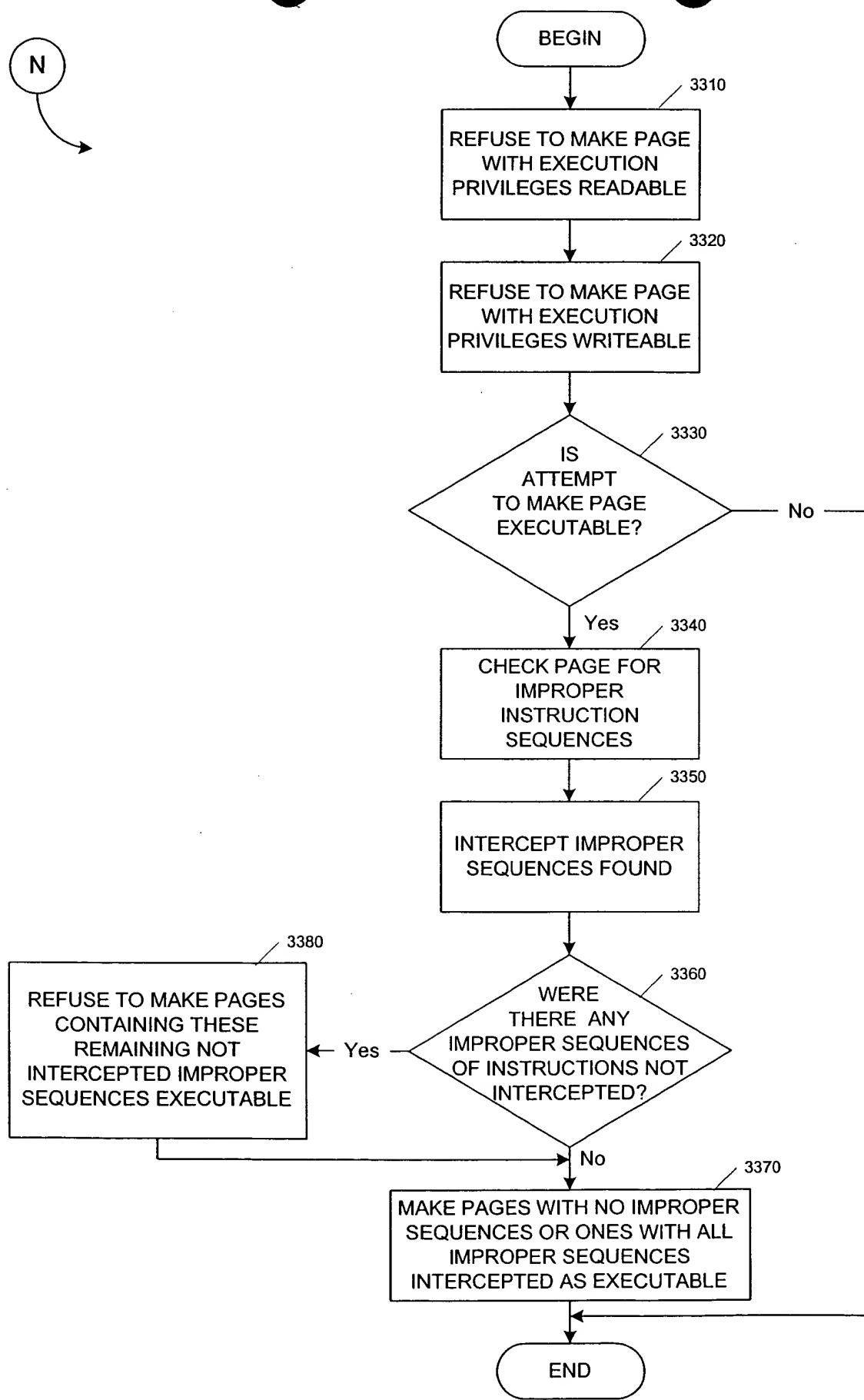


FIG. 33

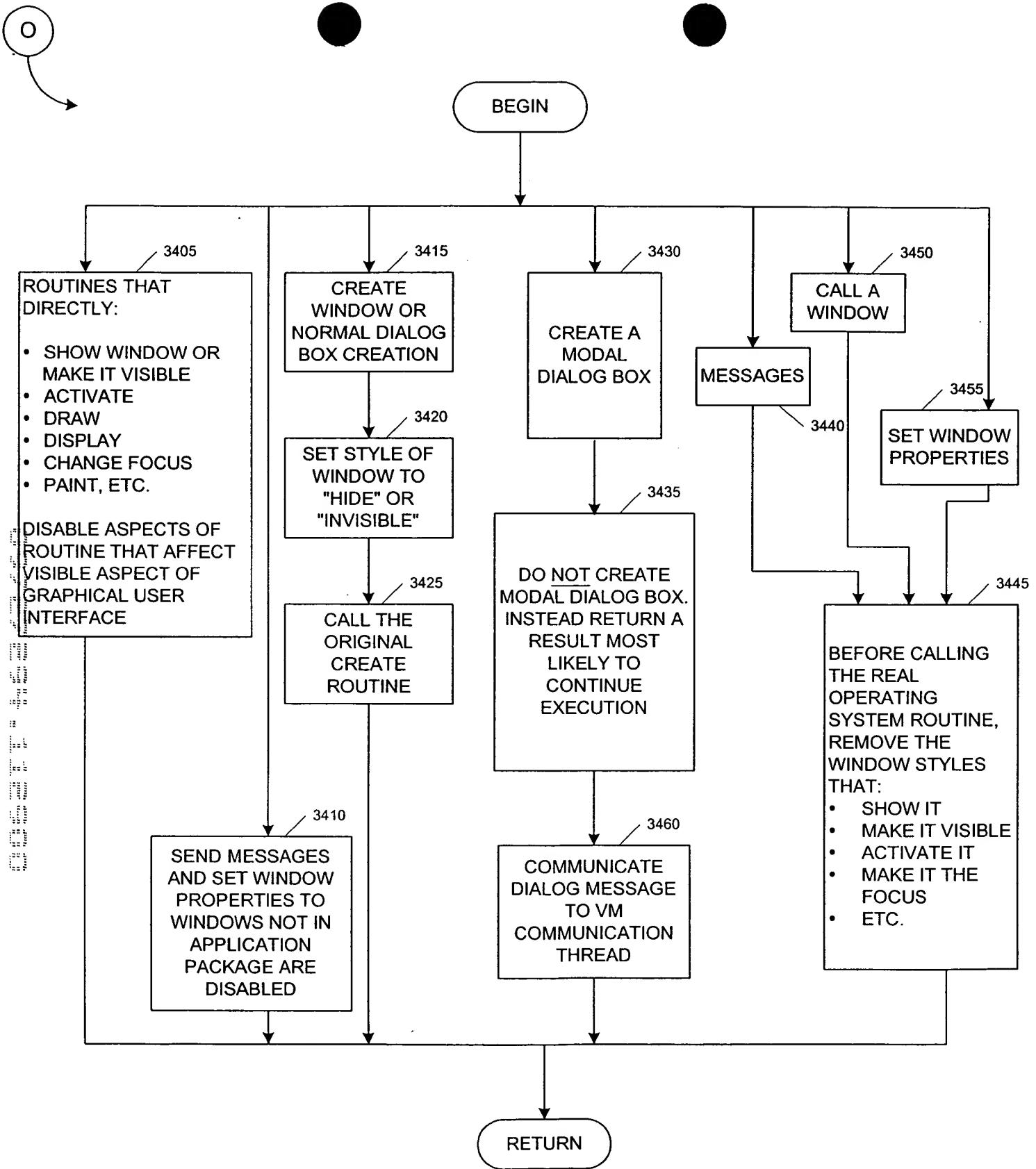


FIG. 34

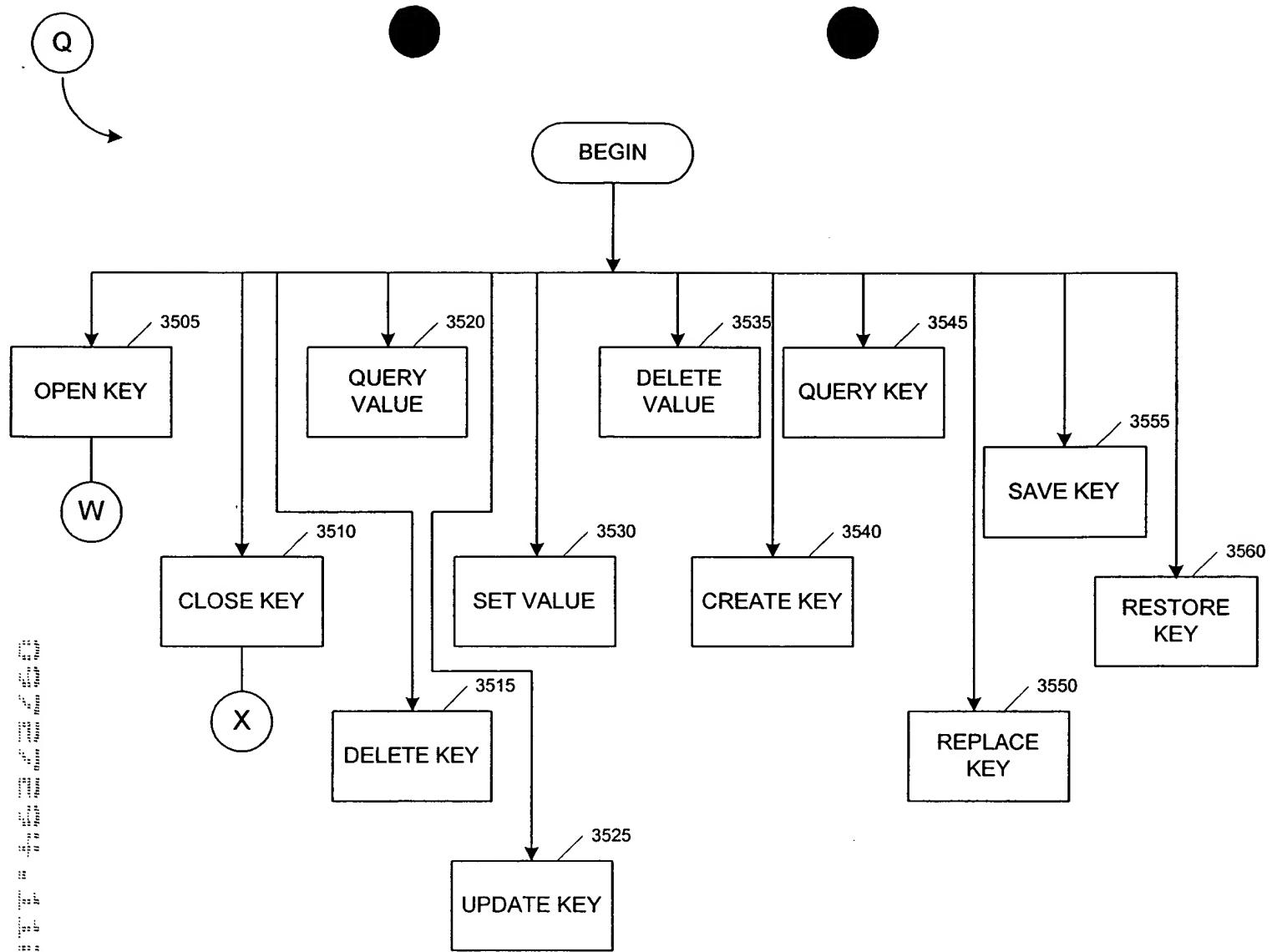


FIG. 35

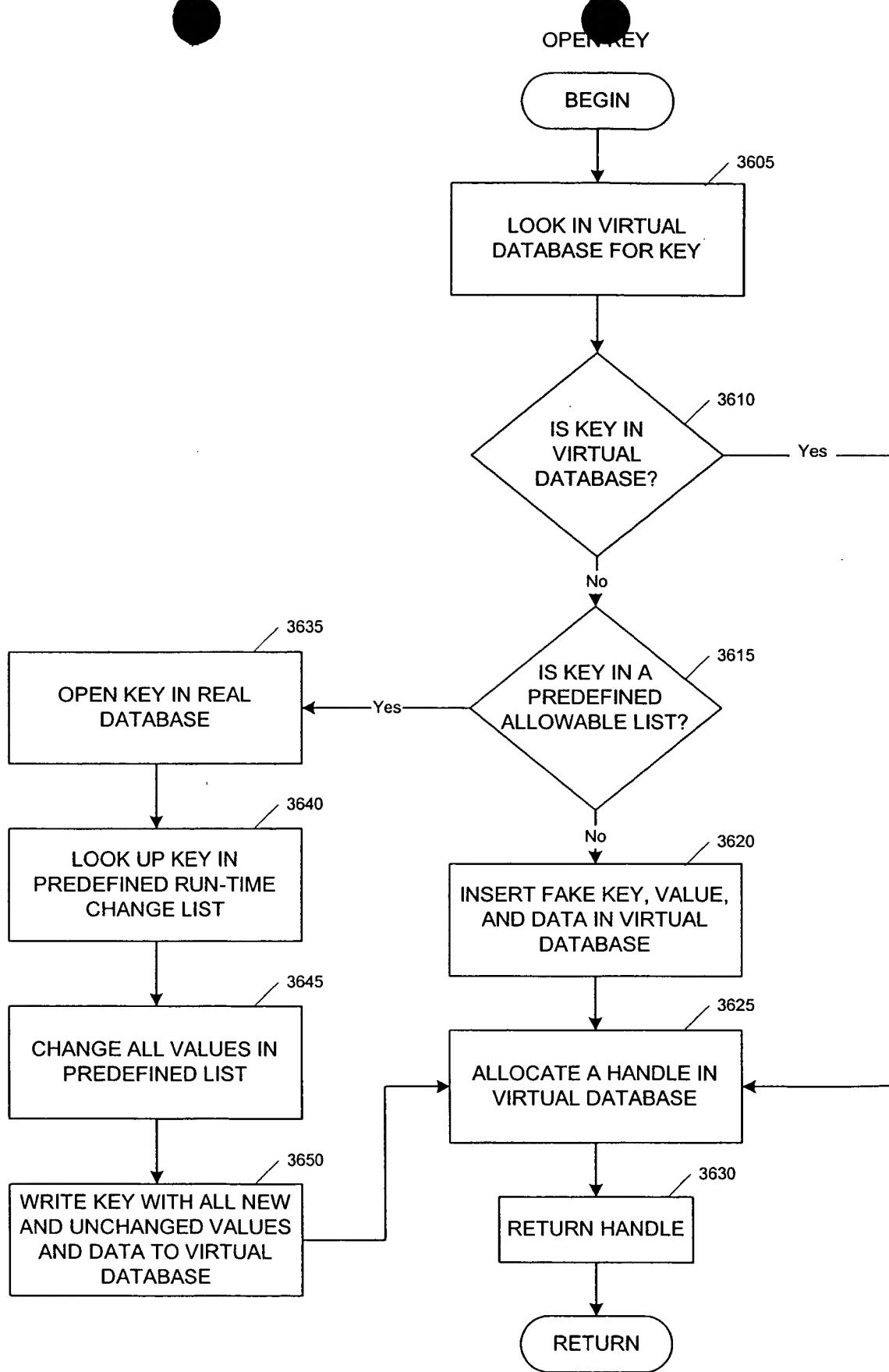


FIG. 36

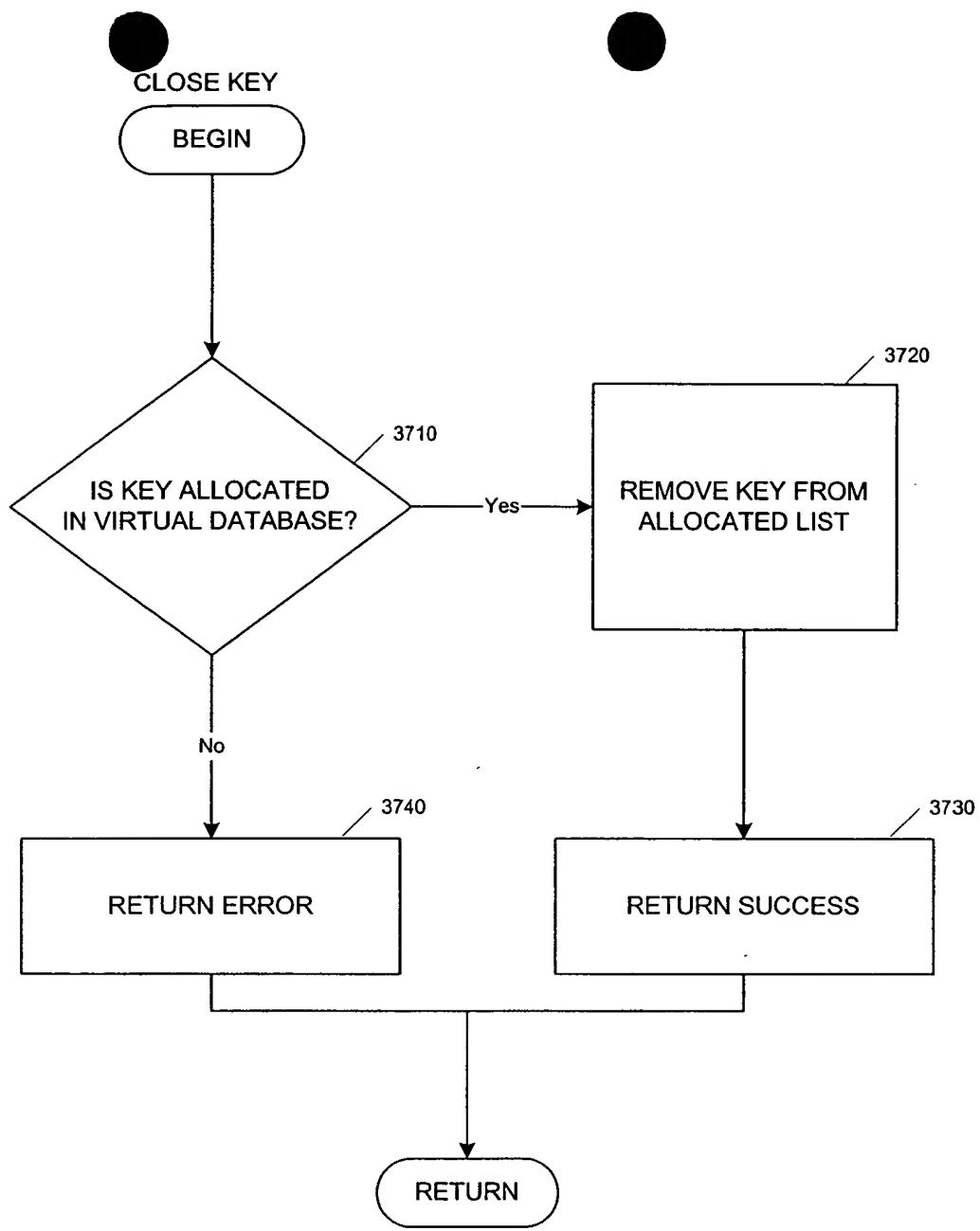


FIG. 37

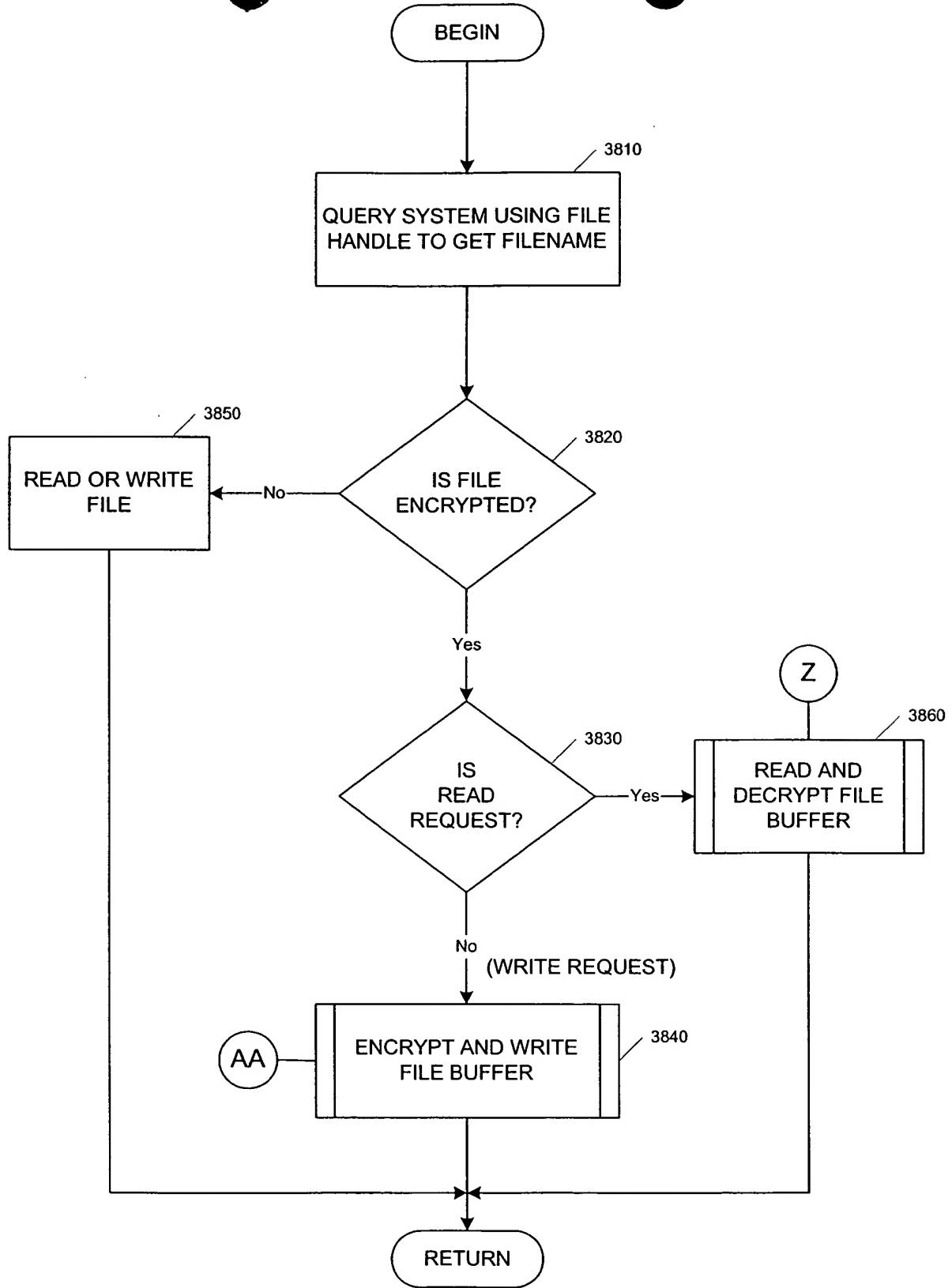


FIG. 38

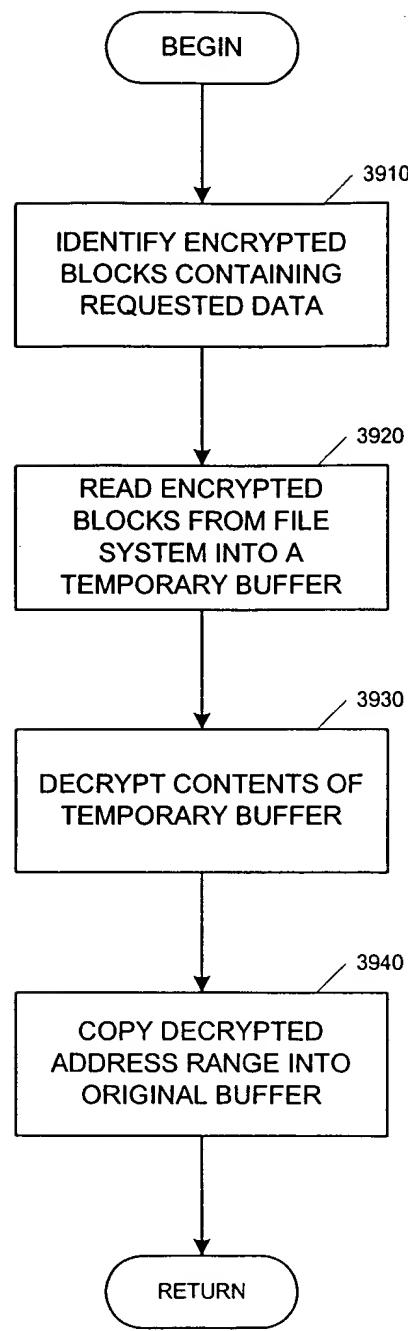


FIG. 39

AA

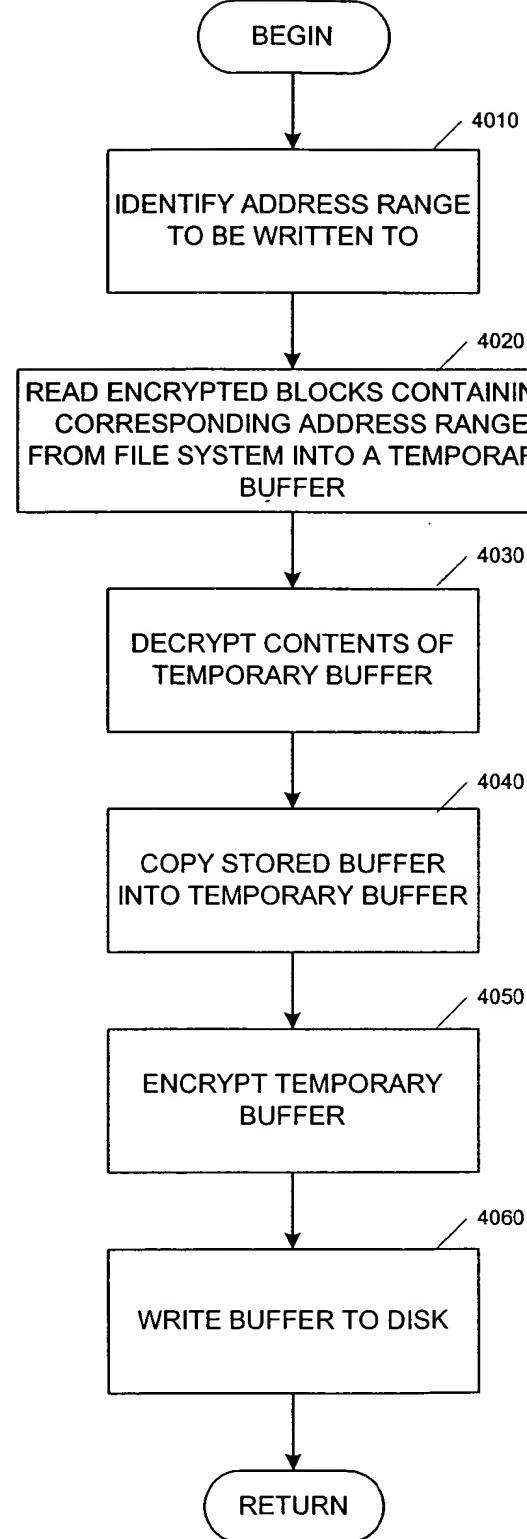


FIG. 40

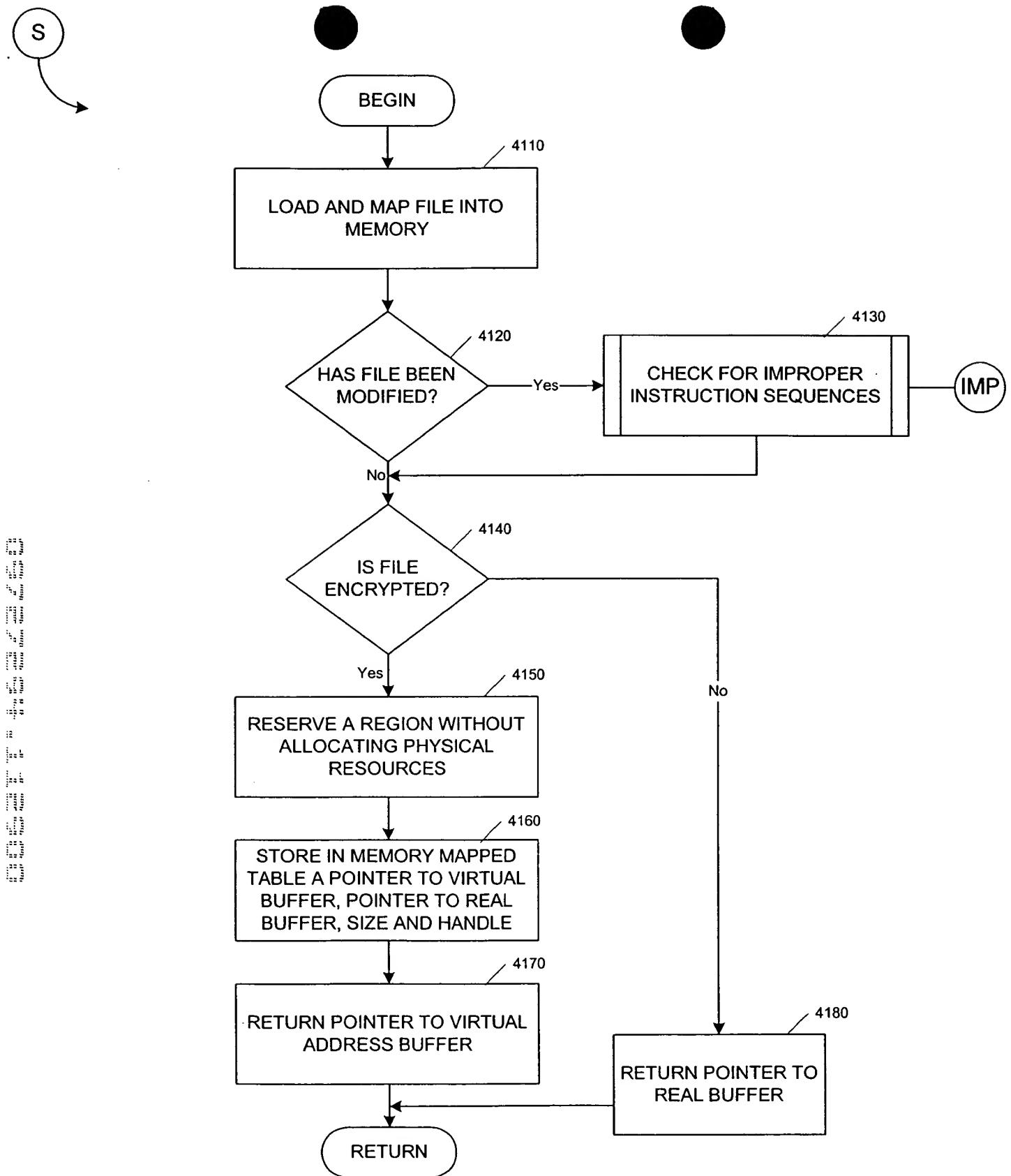


FIG. 41

S
ALTERNATE TO FIG.41)

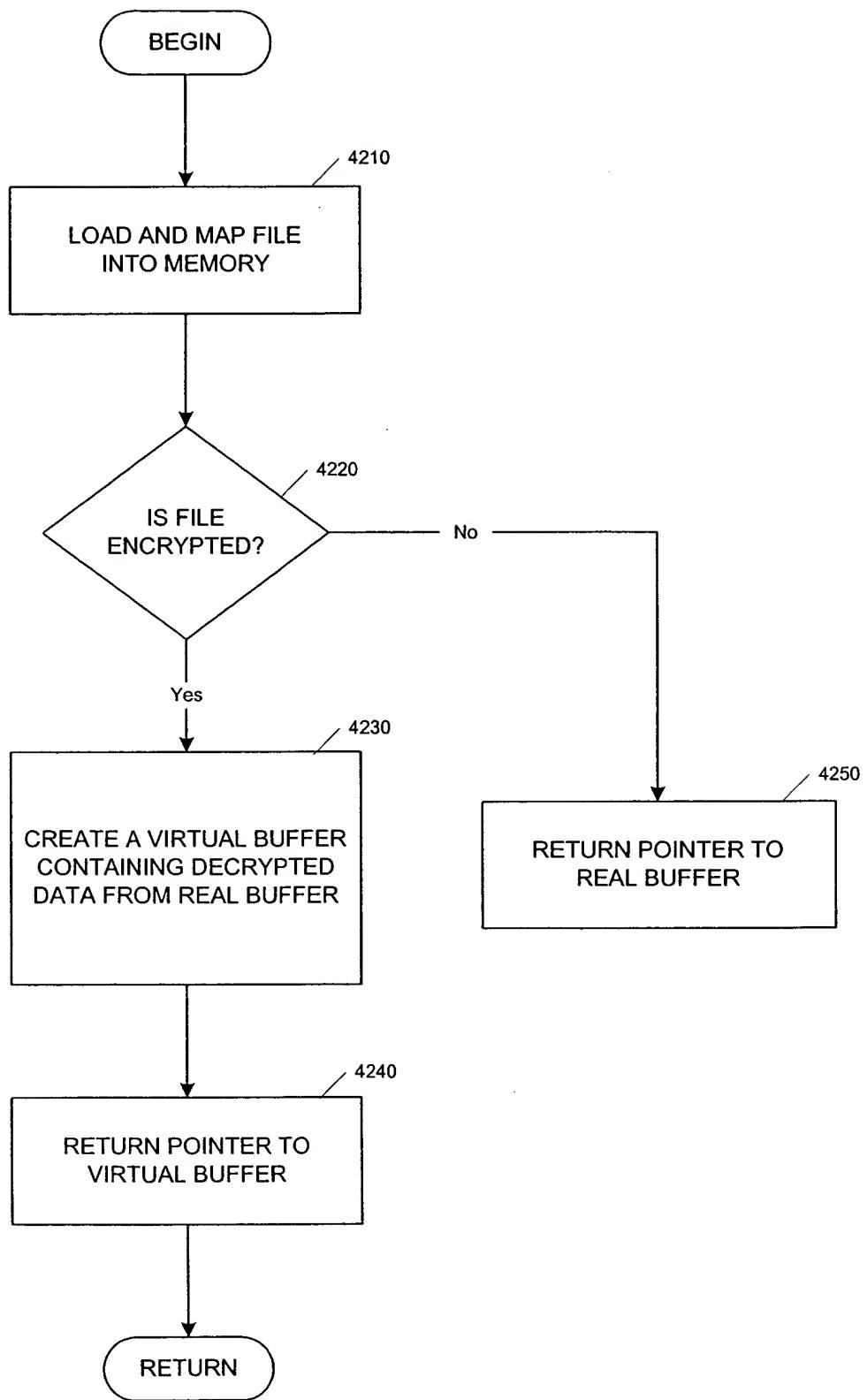


FIG. 42

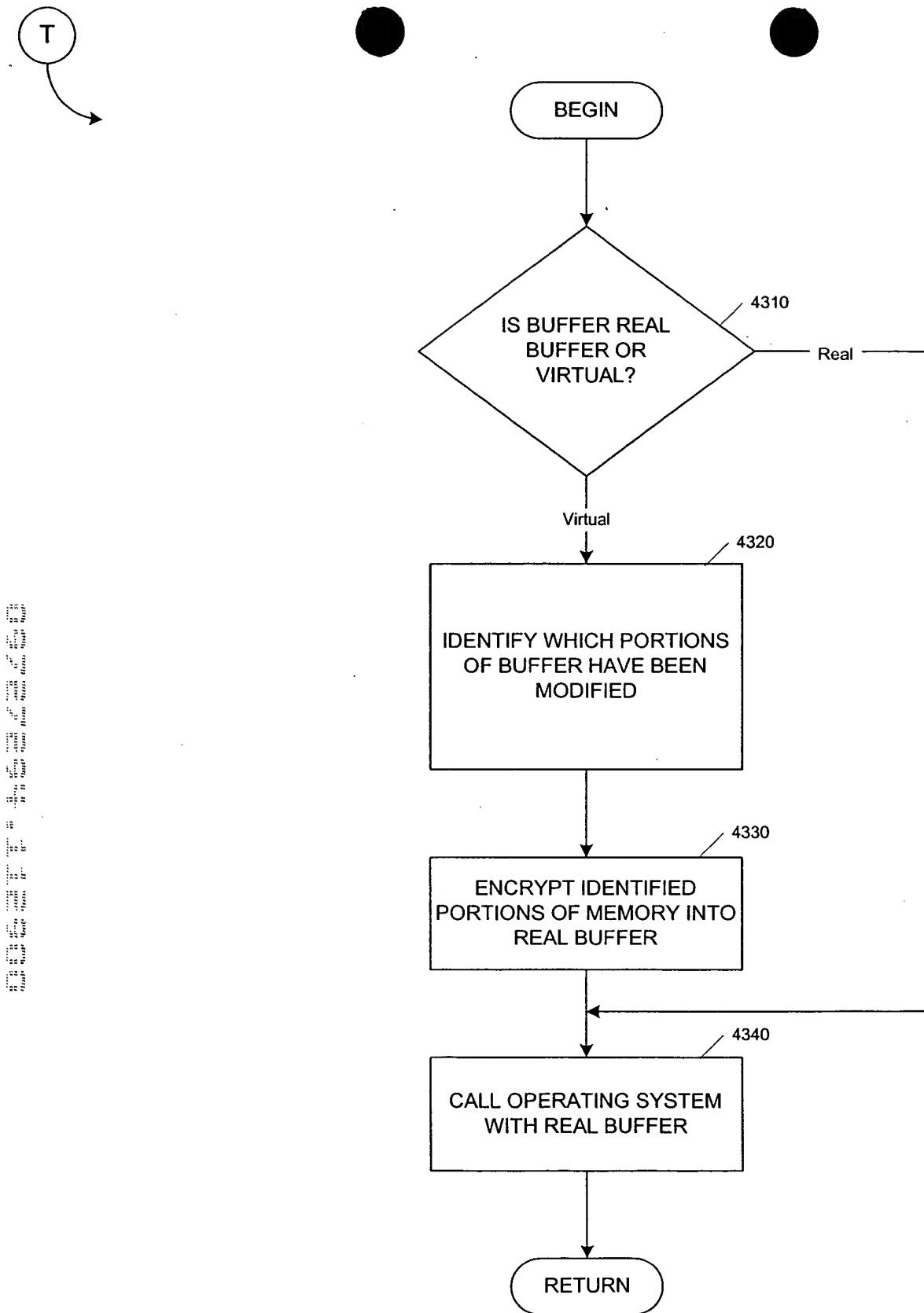


FIG. 43

(U)

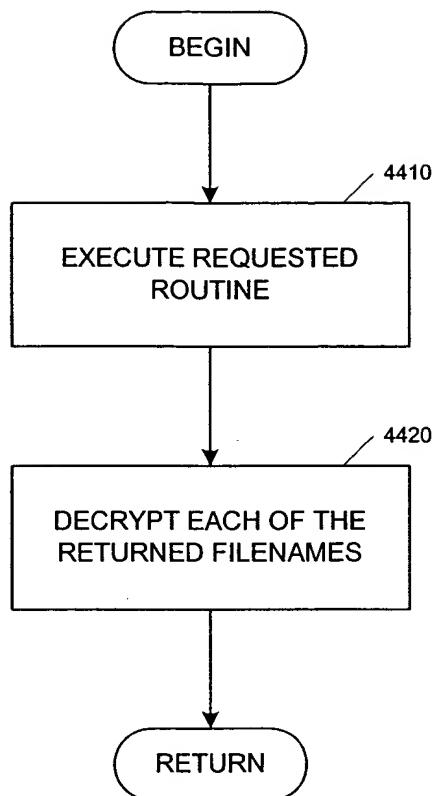


FIG. 44

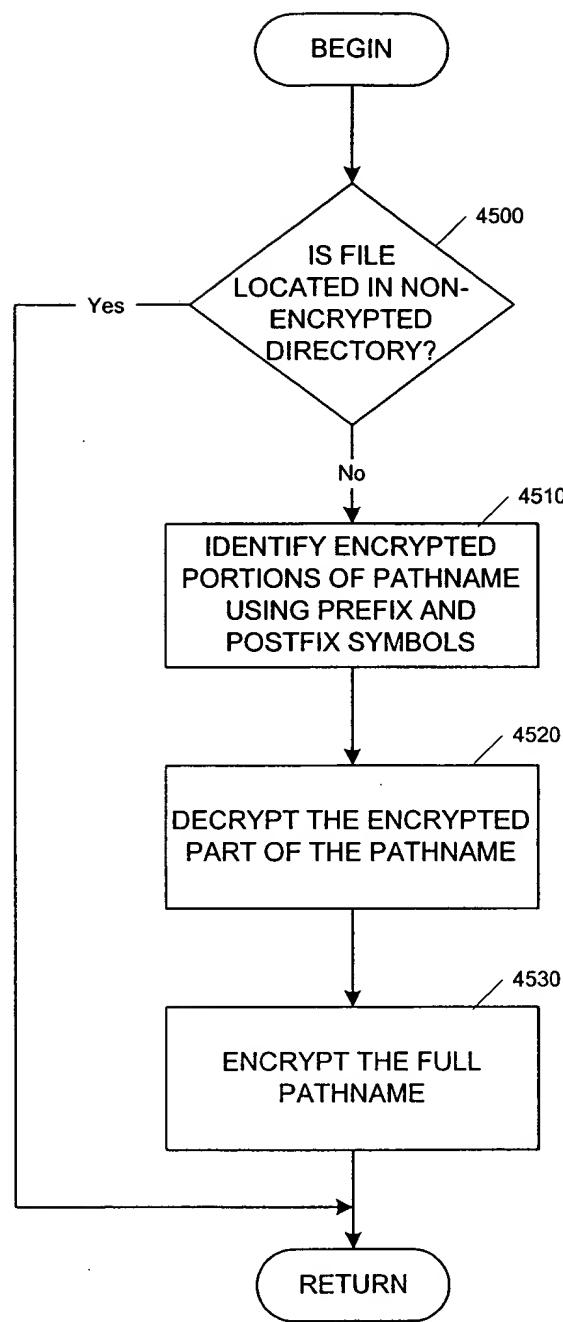


FIG. 45

TRADITIONAL
SYSTEM LAYOUT

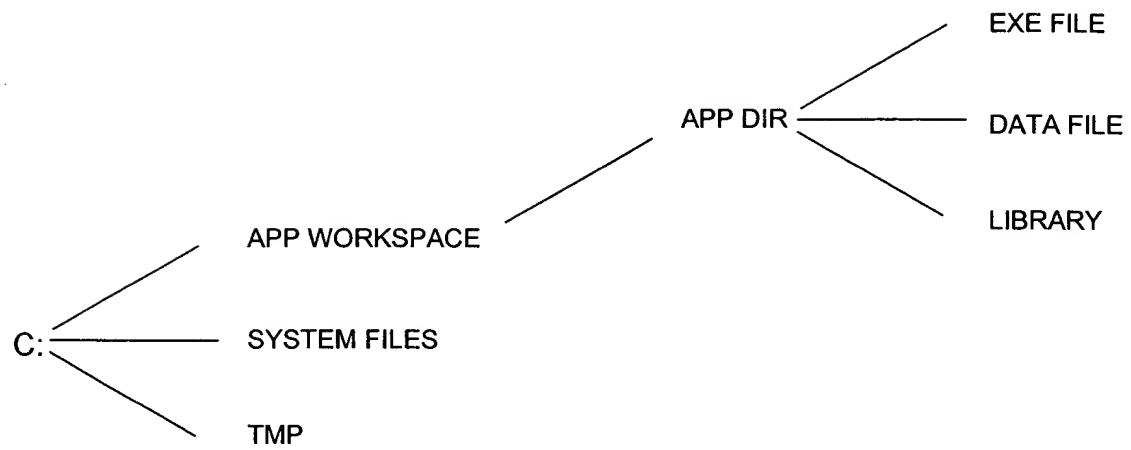


FIG. 46

VIRTUALIZED SYSTEM LAYOUT

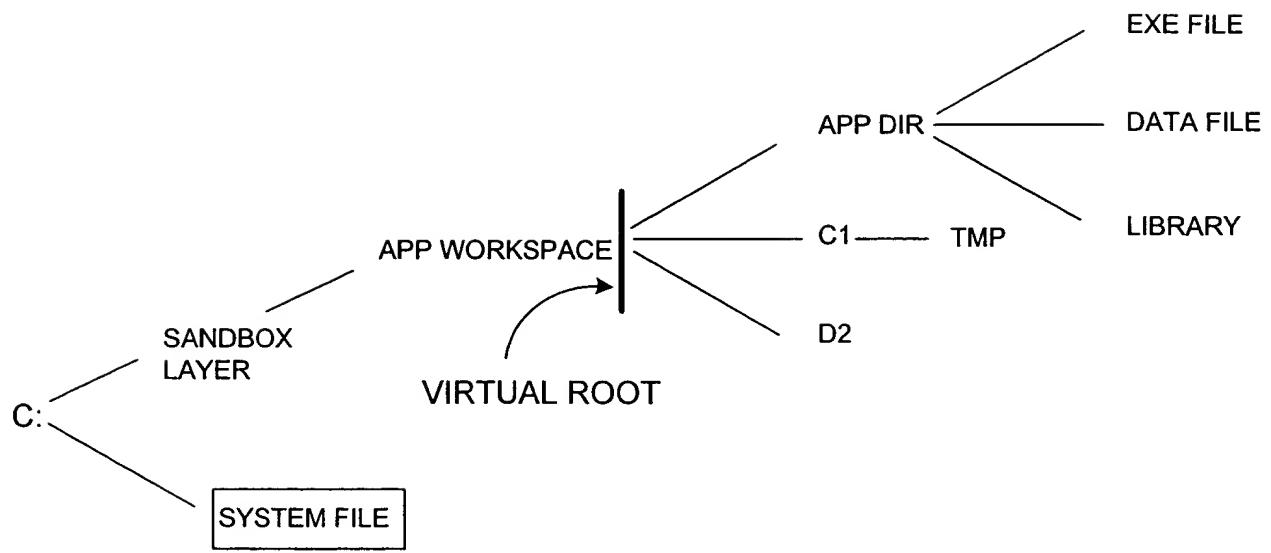


FIG. 47

SOCKET TABLE	
4800	

"ENTRY" LOCAL SOCKET STRUCTURE	REMOTE SOCKET STRUCTURE	SOCKET STATUS	SOCKET OPTIONS	SEND QUEUE	RECEIVE QUEUE	CONNECTION QUEUE
4804						
4808						
4812						
4816						
4820						
4824						
4828						
4832						

4800



SOCKET STATUS

- UNCONNECTED
- RECEIVING
- SENDING
- LISTENING
- CONNECTED
- DISCONNECTED
- TERMINATED
- SHUTDOWN
- BOUND
- CONNECTING

SOCKET STRUCTURE

- UNIQUE SOCKET ID
- SOCKET TYPE
- PROTOCOLS
- OPTIONS
- NETWORK ADDRESSES
- EVENT
- FAMILY
- BLOCKING

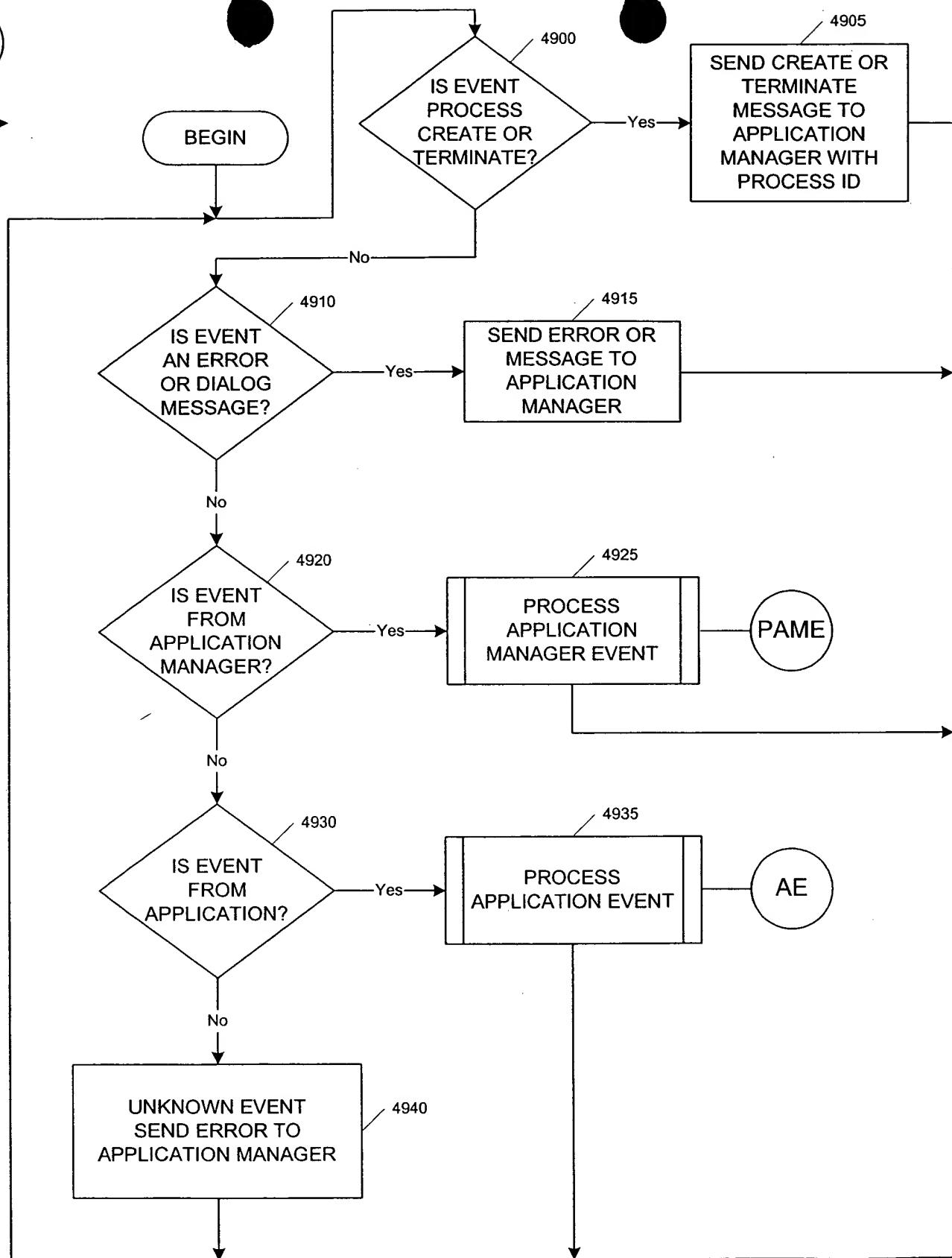


FIG. 49

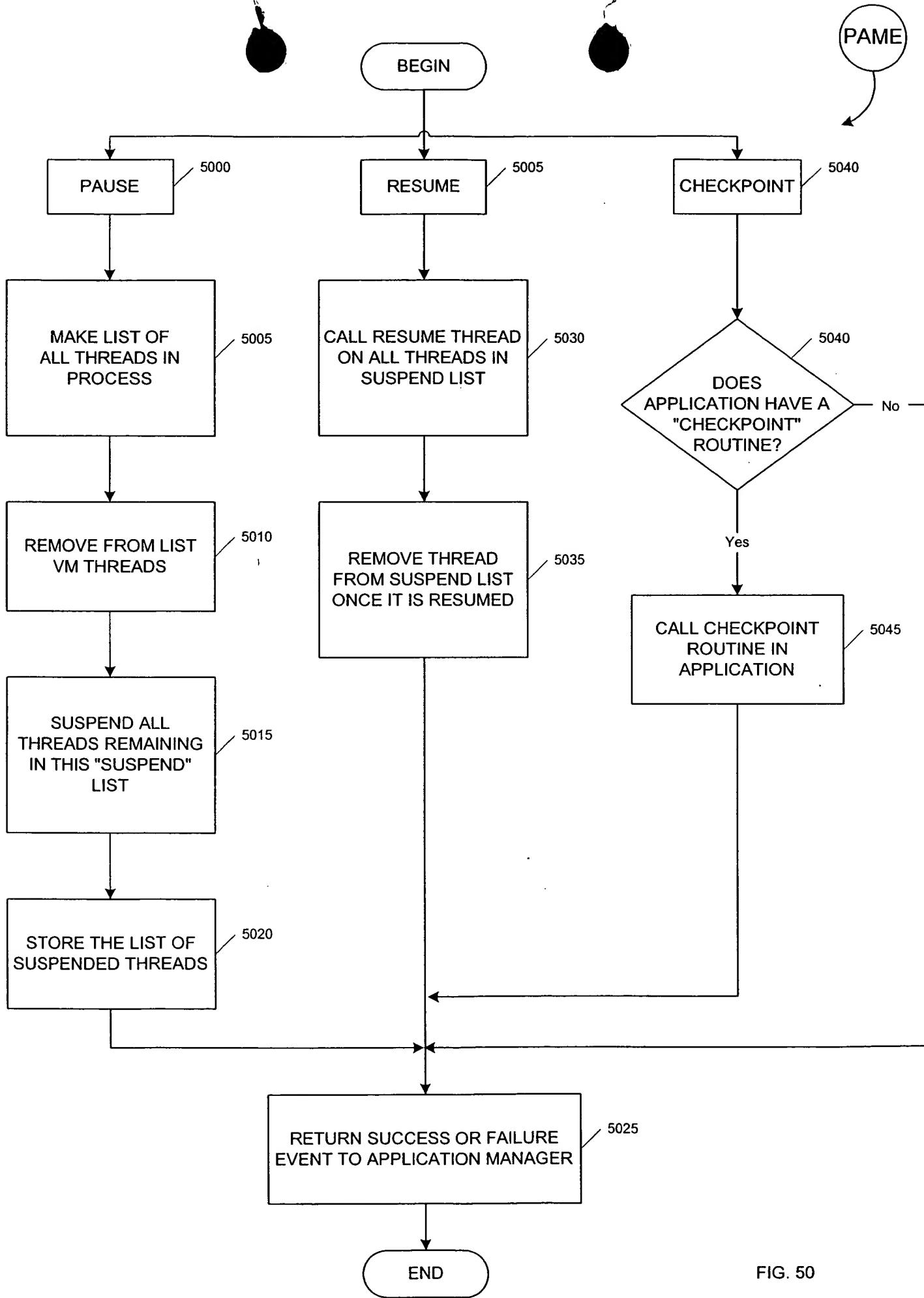


FIG. 50

AE



BEGIN

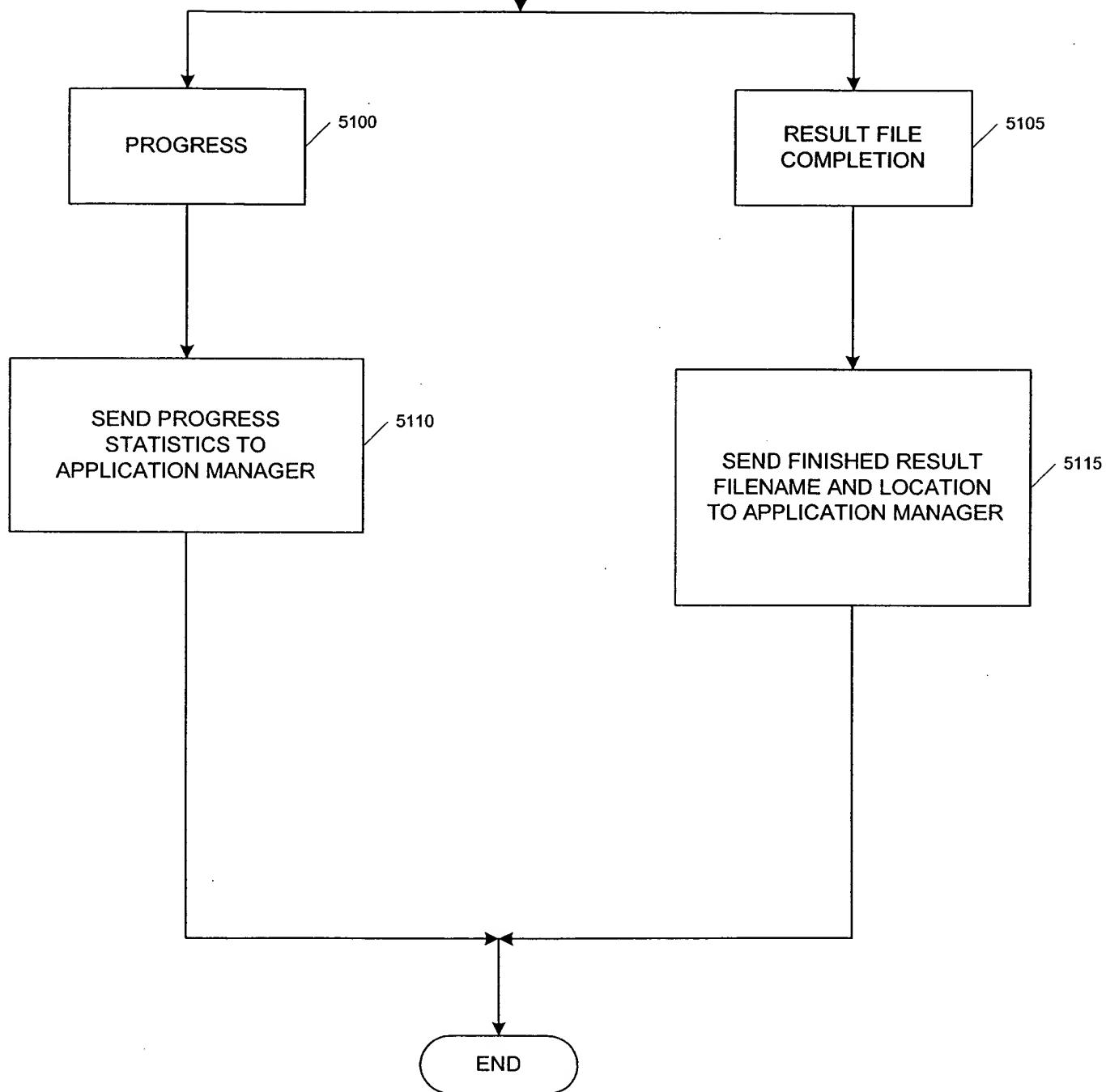


FIG. 51